

BARNARD COLLEGE



**The Undergraduate
College of Liberal
Arts for Women of
Columbia University**

**Announcement
1974-1975**



**Morningside Heights
New York, N.Y. 10027**

Communication with the College

The post office address is Barnard College, 606 West 120th Street, New York, N.Y. 10027.
The telephone number is (Area Code 212) 280-1754.

Inquiries should be addressed as follows:

General matters pertaining to the College: **Office of the President**

Academic work of students: **Class Advisers**

Admission to the freshman class or with advanced standing; information about financial aid for entering students; request for Announcements: **Director of Admissions**

Alumnae: **Director of Alumnae Affairs**

Faculty and curriculum matters: **Office of the Dean of the Faculty**

Financial aid and loan funds for students in college: **Director of Financial Aid**

Gifts or bequests: **Director of Development**

Health: **Director of Health Service**

Housing: **Director of Residence**

Notice of withdrawal: **Dean of Studies**

Opportunities for self-help; recommendations for employment: **Office of Placement and Career Planning**

Payment of College bills: **Bursar**

Public relations: **Director of Public Relations**

Requests for transcripts: **Registrar**

Student Activities: **Director of College Activities**

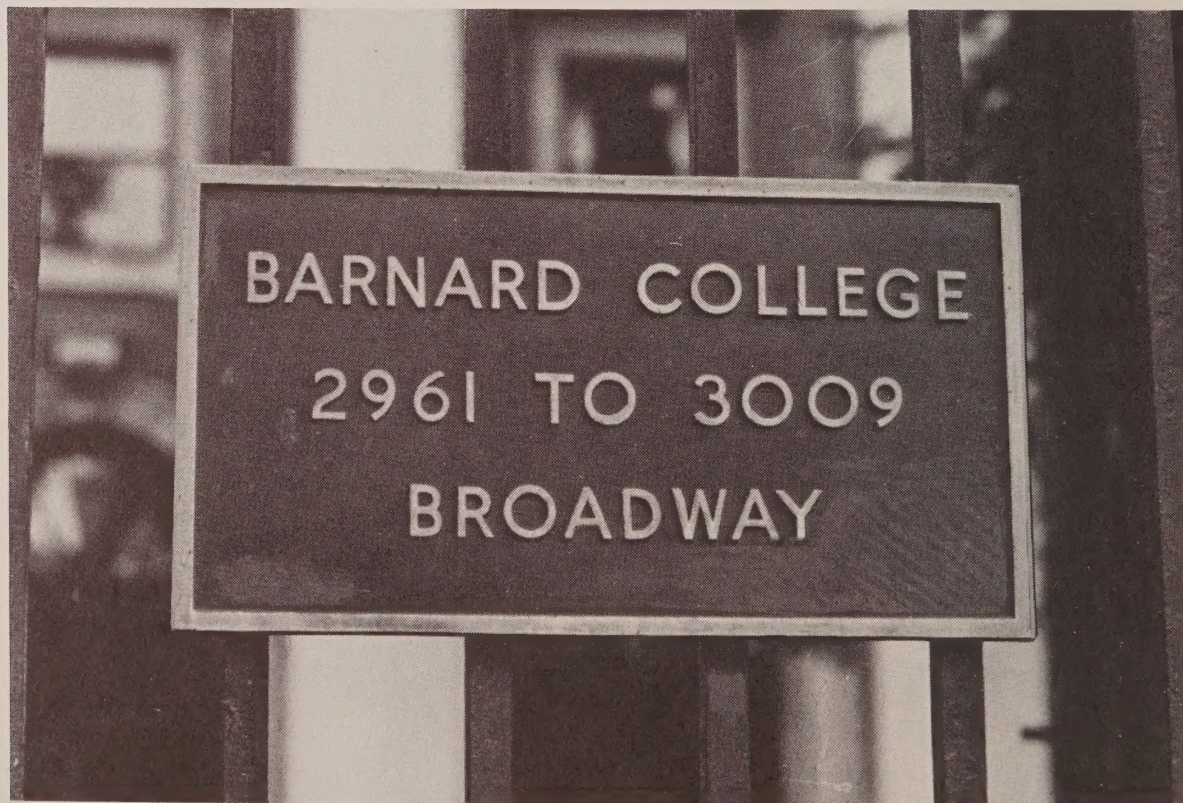


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I. College Calendar 1974-1975

AUTUMN TERM 1974 – EIGHTY-SIXTH YEAR

August 30

Friday. Last day for filing applications for deferred examinations.

September 3-5

Tuesday through Thursday. Registration.

September 3

Tuesday. Language Placement Examinations.

September 5

Thursday. Classes begin 9 a.m. Convocation, 1 p.m.

September 10-11

Tuesday and Wednesday. Deferred examinations for students absent from the May 1974 final examinations in Barnard courses. Deferred examinations for C, F, G, V, W, and other Columbia courses must be taken before the end of the semester.

September 20

Friday. Last day for program filing and adding a course. 5:00 p.m.

October 3

Thursday. Last day for filing requests for pass-fail grades.

October 11

Friday. Last day for filing diploma name cards for the degree in January 1975.

October 22

Tuesday. Midterm date.

October 23

Wednesday. Award of October degrees.

October 31

Thursday. Last day for refund of Spring Term deposit.

November 4

Monday. Academic Holiday

November 5

Tuesday. Election Day. Holiday.

November 7

Thursday. Required meetings for planning programs.

November 14

Thursday. Last day for dropping a course.

November 27

Wednesday. Last day for filing tentative Spring Term programs.

November 28

Thursday through Sunday. Thanksgiving holidays.

December 2

Monday. Last day for submitting work for courses in which grades of Inc. (incomplete) were given in Autumn 1973.

December 2-6

Monday through Friday. Undergraduate Record Examinations for January graduates will be scheduled on one day during this week.

December 4-6

Wednesday through Friday. Major examinations for January graduates.

December 6-11

Friday through Wednesday. Optional reading period.

December 12

Thursday. Required reading day.

College Calendar 1974-1975

December 13

Friday. Midyear examinations begin.

December 16

Monday. Last day for payment of bill for Spring Term.

December 20

Friday. Autumn Term ends.

December 21

Saturday, through January 19, 1975, Sunday. Winter recess. Residence halls closed.

SPRING TERM 1975

January 20

Monday. Classes begin 9 a.m. Language Placement Examinations.

January 20-21

Monday and Tuesday. Registration.

January 22

Wednesday. Award of January degrees.

Last day for filing diploma name cards for the degree in May 1975.

January 31

Friday. Last day for program filing and adding a course. 5:00 p.m.

February 14

Friday. Last day for filing applications for financial aid for 1975-76.

Last day for filing applications for deferred examinations.

February 17

Monday. Washington's Birthday. Holiday.

February 18

Tuesday. Last day for filing requests for pass-fail grades.

February 25-26

Monday and Tuesday. Deferred examinations for students absent from the December 1974 final examinations in Barnard Courses. Deferred examinations for C, F, G, V, W, and other Columbia courses must be taken before the end of the semester.

March 6

Thursday. Midterm date.

March 8-16

Saturday through Sunday. Spring holidays.

March 17-21

Monday through Friday. Undergraduate Record Examinations for May and October graduates will be scheduled on one day during this week.

March 20

Thursday. Last day for dropping a course.

April 1

Tuesday. Last day for submitting work for courses in which grades of Inc. (incomplete) were given in Spring 1974.

April 8

Tuesday. Required meetings for planning programs.

April 9-11

Wednesday through Friday. Major examinations for May and October graduates.

April 25-30

Friday through Wednesday. Optional reading period.

College Calendar 1974-1975

April 29

Tuesday. Last day for filing tentative Autumn Term programs.
Last day for filing name cards for the degree in October 1975.

May 1

Thursday. Last day for payment of deposit for 1975-1976.
Required reading day.

May 2

Friday. Final examinations begin.

May 9

Friday. **Spring Term ends.**

May 11

Sunday. Baccalaureate Service.

May 14

Wednesday. Conferring of degrees.

August 29

Friday. Last day for filing applications for deferred examinations.

September 2-4

Tuesday through Thursday. Registration for Autumn Term 1975.

September 4

Thursday. **Classes begin 9 a.m.**



II. Organization

TRUSTEES OF BARNARD COLLEGE

Chairman

Eleanor (Mrs. John, Jr.) Elliott

Vice-Chairman

Francis T. P. Plimpton

Vice-Chairman

Robert L. Hoguet

Treasurer

Forrest L. Abbott

Clerk

Nancy T. Cook

Helen (Mrs. Frank) Altschul, *Emeritus Trustee*

Margaret (Mrs. Talcott) Bates

June (Mrs. Jonathan) Bingham

Carolyn (Mrs. F. Philip) Brotherton

Cecile (Mrs. John A. H.) Carver

Walter J. P. Curley, Jr.

Richard M. Furlaud

Ellen Futter

William T. Golden

Roy M. Goodman

Blanche (Mrs. Seymour) Graubard

Iola S. Haverstick (Mrs.)

Robert S. Hutchins

Elizabeth (Mrs. Eliot) Janeway

Wallace S. Jones

Helene (Mrs. Mark) Kaplan

Jacques G. Maisonrouge

William A. Marsteller

President William J. McGill, *ex officio*

Samuel R. Milbank

Martha Peterson, *Honorary Trustee*

Dorothy (Mrs. Sydney S.) Spivack

Iphigene (Mrs. Arthur H.) Sulzberger, *Emeritus Trustee*

Barbara M. Watson

Catherine (Mrs. Frederick J.) Woodbridge

FACULTY REPRESENTATIVES TO MEET WITH TRUSTEES

Professor Helen Bacon

Professor Serge Gavronsky

STUDENT REPRESENTATIVES TO MEET WITH TRUSTEES

Marilyn Chin

Susan Ladner

THE FACULTY OF BARNARD COLLEGE

- Martha Peterson, 1967**, President of Barnard College and Dean in the University
A.B., M.A., Ph.D., Kansas; LL.D., L.H.D.
- LeRoy C. Breunig, 1953**, Dean of the Faculty and Professor of French
A.B., DePauw; Ph.D., Cornell
- Barbara S. Schmitter, 1957**, Dean of Studies and Associate Professor of Psychology
A.B., Nebraska; M.A., Columbia
- Helene F. deAguilar, 1972**, Instructor in Spanish
A.B., Barnard; M.A., New York University
- Helen H. Bacon, 1961**, Professor of Greek and Latin
A.B., Ph.D., Bryn Mawr
- Helen Phelps Bailey, 1933**, Professor of French
A.B., Barnard; M.A., Ph.D., Columbia
- Bernard Barber, 1952**, Professor of Sociology
A.B., M.A., Ph.D., Harvard
- Annette K. Baxter, 1952**, Professor of History
A.B., Barnard; M.A., Smith, Radcliffe; Ph.D., Brown
- Toby E. Berger, 1971**, Assistant Professor of Geography
A.B., Barnard; M.A.T., Harvard; Ed.D., Columbia
- Joan S. Birman, 1973**, Professor of Mathematics
A.B., Barnard; M.A., Columbia; Ph.D., New York University
- Jeffrey M. Blustein, 1974**, Assistant Professor of Philosophy
A.B., Minnesota; Ph.D., Harvard
- Vilma Bornemann, 1971**, Instructor in Spanish
A.B., Barnard; M.A., Columbia
- Brigitte L. Bradley, 1962**, Professor of German
A.B., William and Mary; D. d'Université, Strasbourg; M.A., Ph.D., Columbia
- Lila Ghent Braine, 1974**, Professor of Psychology
B.A., M.A., Ph.D., McGill
- Alice Braunwarth, 1969**, Associate in Physical Education
A.B., Hunter; M.S., Springfield
- Joseph Gerard Brennan, 1947**, Professor of Philosophy
A.B., Boston College; M.A., Harvard; Ph.D., Columbia
- Joel P. Brereton, 1974**, Instructor in Religion
B.A., Kenyon; M. Philo., Yale
- Demetrios Caraley, 1961**, Professor of Political Science
A.B., Ph.D., Columbia
- Patricia Carpenter, 1961**, Associate Professor of Music
A.B., California; Ph.D., Columbia
- Luz Castaños, 1967**, Associate in Spanish
A.B., M.A., Hunter
- Elizabeth Louise Caughran, 1956**, Associate in English
A.B., Russell Sage; M.A., Columbia
- John W. Chambers, 1972**, Assistant Professor of History
B.S., Temple; M.A., San Francisco State; Ph.D., Columbia
- Vassilios Christides, 1971**, Assistant Professor of Byzantine and Modern Greek
M.A., U.C.L.A.; Ph.D., Princeton
- Joy Chute, 1964**, Adjunct Associate Professor of English
- Edward S. Cobb, 1963**, Assistant Professor of Psychology
A.B., M.A., Ph.D., Columbia
- Jonathan R. Cole, 1973**, Associate Professor of Sociology
A.B., Ph.D., Columbia

The dates refer to the beginning of service in the College and not necessarily to the assumption of the current title.

Faculty

- William A. Corpe, 1956**, Professor of Biology
A.B., M.A., Wisconsin; Ph.D., Pennsylvania State
- Oakley Crawford, 1974**, Associate Professor of Chemistry
B.A., Carson-Newman; Ph.D., Illinois
- Dennis G. Dalton, 1969**, Associate Professor of Political Science
A.B., Rutgers; M.A., Chicago; Ph.D., London
- Elizabeth C. Dalton, 1965**, Associate in English
A.B., California; M.A., Ohio State
- Simone Daly, 1973**, Instructor in French
Licence-ès-Lettres, Aix-en-Provence
- Bette Stubing Denich, 1968**, Assistant Professor of Anthropology
A.B., Antioch; Ph.D., California
- Samuel Devons, 1970**, Professor of Physics
B.A., M.A., Ph.D., Cambridge University
- Maria Grazia Di Paolo, 1973**, Instructor in Italian
A.B., Hunter; M.A., Columbia
- Marjorie Housepian Dobkin, 1957-59; 1960**, Associate in English
A.B., Barnard; M.A., Columbia
Absent on leave, 1974-75
- Hubert Doris, 1957**, Professor of Music
A.B., Harvard; M.A., Columbia
- Sigalia Dostrovsky, 1971**, Assistant Professor of Physics
A.B., Vassar; M.A., Ph.D., Princeton
- Patricia L. Dudley, 1959**, Professor of Biology
A.B., M.A., Colorado; Ph.D., Washington
- Lois A. Ebin, 1969**, Assistant Professor of English
A.B., Smith; M.A., Ph.D., Columbia
- Hester A. Eisenstein, 1970**, Coordinator of the Experimental College
A.B., Radcliffe; M.A., Ph.D., Yale
- Ann Fagan, 1969**, Assistant Professor of History
A.B., Carleton; Ph.D., Bryn Mawr
- Bruce Feld, 1968**, Associate in Political Science and Urban Studies
B.B.A., Miami; M.A., Rutgers
- Daniel Field, 1970**, Assistant Professor of History
A.B., M.A., Ph.D., Harvard
- Barbara M. Fitts, 1969**, Associate in Physical Education
B.S., Boston
- Annette B. Fox, 1966**, Lecturer in Political Science
A.B., Ph.D., Chicago
- Marie D. Francia, 1974**, Assistant Professor of Chemistry
B.A., Cornell; Ph.D., Pennsylvania
- Richard M. Friedberg, 1968**, Associate Professor of Physics
A.B., Harvard; M.A., Ph.D., Columbia
- Serge Gavronsky, 1960**, Associate Professor of French
A.B., M.A., Ph.D., Columbia
- Renée Geen, 1956**, Associate Professor of French
A.B., Brooklyn; M.A., Wisconsin; Ph.D., Columbia
- Sandra Genter, 1961**, Assistant Professor of Physical Education
A.B., Wisconsin; M.A., Columbia
- David Giesecker, 1973**, Assistant Professor of Mathematics
B.A., Reed; Ph.D., Harvard
- Enrique A. Giordano, 1974**, Instructor in Spanish
M.A., Pennsylvania

- Jean A. Gooch, 1964**, Associate Professor of Economics
A.B., California; M.A., Ph.D., Columbia
- Patricia Albjerg Graham, 1965**, Professor of Education
B.S., M.S., Purdue; Ph.D., Columbia
- Tatiana Greene, 1946**, Associate Professor of French
Candid. en Droit, Brussels; M.A., Ph.D., Columbia
- Richard F. Gustafson, 1965**, Professor of Russian
A.B., Yale; Ph.D., Columbia
- Danielle Haase-Dubosc, 1962**, Assistant Professor of French
A.B., Barnard; M.A., Ph.D., Columbia
- Elizabeth Hardwick, 1965**, Adjunct Associate Professor of English
A.B., M.A., Kentucky
- Giselle Harrington, 1972**, Associate in Education
A.B., Syracuse; M.A., Columbia
- Sylvia A. Hewlett, 1974**, Assistant Professor of Economics
B.A., M.A., Cambridge; Ph.D., London
- Barry M. Jacobson, 1974**, Assistant Professor of Chemistry
B.A., Chicago; Ph.D., Harvard
- Lars-Alvar Jacobson, 1972**, Assistant Professor of Linguistics
B.A., Ph.D., Stockholm
- Kenneth H. Janes, 1961**, Associate Professor of English and Director of Minor
Latham Playhouse
- Peter H. Juviler, 1964**, Associate Professor of Political Science
B.E., M.E., Yale; M.A., Ph.D., Columbia
Absent on leave, 1974-75.
- Hannah Kahn, 1972**, Instructor in Physical Education
B.F.A., Juilliard School of Music
Absent on leave, 1974-75.
- George W. Kelling, 1972**, Assistant Professor of Psychology
B.A., Ph.D., Colorado
- Grace W. King, 1960**, Lecturer in Chemistry
A.B., Maine; Ph.D., Yale
- Ruth M. Kivette, 1952**, Associate Professor of English
A.B., Barnard; M.A., Ph.D., Columbia; B.D., Union Theological Seminary
Absent on leave, Autumn Term.
- Morton Klass, 1965**, Professor of Anthropology
A.B., Brooklyn; Ph.D., Columbia
- Stephen E. Koss, 1966**, Professor of History
A.B., M.A., Ph.D., Columbia
- John Kouwenhoven, 1946**, Professor of English
A.B., Wesleyan; M.A., Ph.D., Columbia
Absent on leave, Autumn Term.
- Maire S. Kurrik, 1968**, Assistant Professor of English
A.B., Vassar; Ph.D., Harvard
- Patricia H. Labalme, 1961-64; 1965**, Lecturer in History
A.B., Bryn Mawr; M.A., Ph.D., Radcliffe
- Sue Howard Larson, 1965**, Professor of Philosophy
A.B., Ph.D., Stanford
- Marina Ledkovsky, 1969**, Associate Professor of Russian
Ph.D., Columbia
Absent on leave, 1974-75.
- Lydia H. Lenaghan, 1962**, Associate Professor of Greek and Latin
A.B., Barnard; M.A., Ph.D., Bryn Mawr

Faculty

- Linda Lerner, 1968**, Associate in Physical Education
B.S., Skidmore; M.A., Columbia
Absent on leave, 1974-75.
- Darline G. Levy, 1973**, Assistant Professor of History
A.B., Barnard; Ph.D., Harvard
- Naomi Loeb Lipman, 1952-1966; 1972**, Instructor in English
A.B., Barnard; M.A., Columbia
- Cynthia B. Lloyd, 1970**, Assistant Professor of Economics
A.B., Bryn Mawr; M.A., Ph.D., Columbia
- Maristella de Panizza Lorch, 1951**, Professor of Italian
Dott. in Lett. e Filos, Rome
- Julia L. Makarushka, 1971**, Assistant Professor of Sociology
A.B., LeMoyne; Ph.D., Columbia
- Joseph L. Malone, 1967**, Associate Professor of Linguistics
A.B., M.A., Ph.D., California
Absent on leave, Autumn Term.
- Joseph Masheck, 1971**, Assistant Professor of Art History
A.B., A.M., Ph.D., Columbia
- Edith Mason, 1956**, Associate in Physical Education
B.S., Winthrop; M.S., Louisiana State
- Ruth M. Mathewson, 1964**, Instructor in English
A.B., Vassar
- Robert A. McCaughey, 1969**, Assistant Professor of History
A.B., Rochester; M.A., North Carolina; Ph.D., Harvard
- Elisabeth McLaughlin, 1970**, Instructor in German
B.S., M.A., Columbia
- Maya Devi Menon, 1972**, Assistant Professor of Biological Sciences
B.Sc., M.A., Madras; Ph.D., California
- Astrid E. Merget, 1972**, Assistant Professor of Political Science and Urban Studies
A.B., Mount Holyoke; M.P.A., Ph.D., Syracuse
- John Meskill, 1960**, Professor of Chinese and Japanese
A.B., Harvard; Ph.D., Columbia
- Deborah D. Milenkovitch, 1965**, Associate Professor of Economics
A.B., Radcliffe; Ph.D., Columbia
- Barbara S. Miller, 1968**, Associate Professor of Oriental Studies
A.B., Barnard; M.A., Columbia; Ph.D., Pennsylvania
Absent on leave, 1974-75.
- Joann Ryan Morse, 1957**, Associate Professor of English
A.B., Vassar; M.A., Yale
- Mary Mothersill, 1963**, Professor of Philosophy
A.B., Toronto; M.A., Ph.D., Radcliffe
- Onora S. Nell, 1970**, Assistant Professor of Philosophy
B.A., Oxford; Ph.D., Harvard
- Richard A. Norman, 1954**, Professor of English
A.B., George Washington; M.A., Ph.D., Columbia
- Barbara Novak, 1958**, Professor of Art History
A.B., Barnard; M.A., Ph.D., Radcliffe
- Dorothea Nyberg, 1968**, Associate Professor of Art History
A.B., Toronto; M.A., Ph.D., New York University
- Maria March de Orti, 1965-67; 1968**, Assistant Professor of Spanish
A.B., California; M.A., Washington; Ph.D., Columbia
- Elaine H. Pagels, 1970**, Assistant Professor of Religion
A.B., M.A., Stanford; Ph.D., Harvard

- Remington P. Patterson, 1955**, Professor of English
A.B., M.A., Ph.D., Yale
- Thomas B. Perera, 1966**, Assistant Professor of Psychology
A.B., M.A., Ph.D., Columbia
- Frederick G. Peters, 1970**, Assistant Professor of German
A.B., Pennsylvania; M.A., Columbia; B. Litt., Oxford; Ph.D., Cambridge
- Marion R. Philips, 1945-55; 1958**, Associate Professor of Physical Education
A.B., Hunter; M.A., Columbia
- Richard M. Pious, 1973**, Assistant Professor of Political Science
B.A., Colby; Ph.D., Columbia
- Charles Potter, 1973**, Instructor in French
A.B., M.A., Columbia
- Anne Lake Prescott, 1959-62; 1963**, Associate Professor of English
A.B., Barnard; M.A., Ph.D., Columbia
- Carol Rayne, 1973**, Assistant Professor of Psychology
B.S., Illinois; Ph.D., State University of New York
- Inez Smith Reid, 1969-70; 1971**, Associate Professor of Political Science
A.B., Tufts; LL.B., Yale; M.A., California; Ph.D., Columbia
- Hermine Riffaterre, 1961**, Assistant Professor of French
A.B., Hunter; M.A., Columbia; B. ès L., Toulouse; Ph.D., Columbia
- Donald D. Ritchie, 1948**, Professor of Biology
A.B., B.S., Furman; M.A., Ph.D., North Carolina
- David A. Robertson, Jr., 1940**, Millicent Carey McIntosh Professor of English
A.B., M.A., Ph.D., Princeton
Absent on leave, Spring Term.
- Jeanette Schlottman Roosevelt, 1951-58; 1962**, Associate Professor of
Physical Education
B.S., M.A., Texas Woman's University
- Jane H. Rosenthal, 1952-55; 1971**, Instructor in Art History
A.B., Douglass
- Abraham Rosman, 1966**, Professor of Anthropology
A.B., City University of New York; Ph.D., Yale
- R. Christine Royer, 1965**, Associate in English
A.B., Western Maryland; M.A., Pennsylvania
- Paula G. Rubel, 1965**, Associate Professor of Anthropology
A.B., Hunter; Ph.D., Columbia
- Susan R. Sacks, 1971**, Assistant Professor of Education and Psychology
A.B., Northwestern; M.A., Western Reserve; Ph.D., Columbia
- Gertrud M. Sakrawa, 1952**, Associate Professor of German
M.A., Columbia; Ph.D., Vienna, Columbia
- John E. Sanders, 1969**, Professor of Geology
A.B., Ohio Wesleyan; Ph.D., Yale
- Anatol K. Sapronow, 1966**, Associate in Russian
Russian Gymnasium, Belgrade
- Marianna Greene Sapronow, 1967**, Instructor in Russian
Russian Gymnasium, Munich
- Frances Fuchs Schachter, 1972**, Assistant Professor of Psychology
A.B., Barnard; Ph.D., Rochester
- Peter Schubert, 1970**, Instructor in Music
A.B., Columbia
- Bernice Segal, 1958**, Associate Professor of Chemistry
A.B., Radcliffe; Ph.D., Columbia

Faculty

- Mirella d'Ambrosio de Servodidio, 1964**, Associate Professor of Spanish
A.B., Barnard; M.A., Ph.D., Columbia
- Ann C. Sheffield, 1969**, Assistant Professor of Greek and Latin
A.B., Smith; M.A., Ph.D., Stanford
- Maurice Z. Shroder, 1965**, Professor of French
B.S., Northwestern; M.A., Ph.D., Harvard
- Garrett A. Smith, Jr., 1970**, Instructor in Geography
A.B., Rochester; M.A., Harvard
- Lynda D. Snead, 1971**, Instructor in French
A.B., Skidmore; M.A., Columbia
- John B. Snook, 1968**, Adjunct Assistant Professor of Religion
A.B., Harvard; B.D., Union Theological Seminary; Ph.D., Columbia
- S. David Sperling, 1974**, Associate Professor of Religion
A.B., Brooklyn; M.H.L., Jewish Theological Seminary; Ph.D., Columbia
- Domna Callimanopulos Stanton, 1962**, Assistant Professor of French
A.B., Wellesley; M.A., Ph.D., Columbia
- Catharine R. Stimpson, 1963**, Assistant Professor of English
A.B., Bryn Mawr; B.A., Cambridge; Ph.D., Columbia
- Sandra Stingle, 1967**, Assistant Professor of Psychology
A.B., Barnard; Ph.D., Columbia
- Howard M. Teichmann, 1946**, Adjunct Professor of English
A.B., Wisconsin
- Patricia Terry, 1958**, Lecturer in French
A.B., Wellesley; M.A., Ph.D., Columbia
- Janice Farrar Thaddeus, 1956**, Assistant Professor of English
A.B., Barnard; M.A., Ph.D., Columbia
- Eleanor M. Tilton, 1950**, Professor of English
A.B., Mount Holyoke; M.A., Boston; Ph.D., Columbia
- Zoya A. Trifunovich, 1959**, Associate in Russian
B.S., M.A., Columbia
- Margarita Ucelay, 1943**, Professor of Spanish
Bach. Instituto-Escuela de Madrid; M.A., Ph.D., Columbia
- Barry Ulanov, 1951**, Professor of English
A.B., Ph.D., Columbia; Litt. D., Villanova
- Joan E. Vincent, 1968**, Associate Professor of Anthropology
B.Sc., London School of Economics; M.A., Chicago; Ph.D., Columbia
- Frederick E. Warburton, 1963**, Associate Professor of Biology
B.Sc., M.Sc., Ph.D., McGill
- Marcia L. Welles, 1970**, Assistant Professor of Spanish
A.B., Barnard; M.A., Middlebury; Ph.D., Columbia
- Suzanne F. Wemple, 1966**, Associate Professor of History
A.B., California; M.L.S., Ph.D., Columbia
Absent on leave, 1974-75.
- Katherine E. Wilcox, 1971**, Associate in Education
A.B., City College of New York
- Chilton Williamson, 1942**, Professor of History
A.B., M.A., Ph.D., Columbia
- Richard Youtz, 1937**, Professor of Psychology
A.B., Carleton; Ph.D., Yale
- Hannah J. Zawadzka, 1973**, Instructor in Political Science
M.A., New School of Social Research
- Leonard Zabler, 1955**, Professor of Geography
B.S., M.S., Washington State; Ph.D., Columbia

Forrest L. Abbott, 1953, Treasurer and Controller
B.S., Southwest Missouri State Teachers; M.A., Ed.D., Columbia
Mary Helen McMahon, 1969, Registrar
B.S., M.A., Saint Louis
Robert B. Palmer, 1967, Librarian
M.A., Middlebury; M.S., Simmons
Natalie Sonevytsky, 1959, Reference Librarian
A.B., New Rochelle; M.S., Columbia

FACULTY EMERITI

William Haller, 1909-1950, Professor Emeritus of English
Ph.D., L.H.D.
Helen R. Downes, 1933-1960, Professor Emeritus of Chemistry
Ph.D.
Amelia A. de del Rio, 1930-1962, Professor Emeritus of Spanish
Ph.D.
Millicent C. McIntosh, 1947-1962, President Emeritus
Ph.D., LL.D., Litt.D., L.H.D.
Margaret Holland, 1926-1964, Professor Emeritus of Physical Education
M.A.
Thomas P. Peardon, 1923-1965, Professor Emeritus of Political Science
Ph.D.
Esther Greene, 1944-1967, Librarian Emeritus
A.B., B.S.
Lucyle Hook, 1948-1967, Professor Emeritus of English
Ph.D.
Marion Lawrence, 1929-1967, Professor Emeritus of Art History
Ph.D.
René Albrecht-Carrié, 1945-1969, Professor Emeritus of History
Ph.D.
Eugenio Florit, 1945-1969, Professor Emeritus of Spanish
D. en D.
Virginia D. Harrington, 1942-1969, Professor Emeritus of History
Ph.D.
Jean T. Palmer, 1946-1969, General Secretary Emeritus
A.B.
Henry A. Boorse, 1937-1970, Professor Emeritus of Physics and Dean Emeritus
of the Faculty
Ph.D.
Julius S. Held, 1936-1970, Professor Emeritus of Art History
Ph.D.
Mirra Komarovsky, 1934-1970, Professor Emeritus of Sociology
Ph.D.
Emma Dietz Stecher, 1945-1971, Professor Emeritus of Chemistry
Ph.D.
Theodor H. Gaster, 1966-1972, Professor Emeritus of Religion
Ph.D., D.D., L.H.D., Litt.D.
Eleanor Rosenberg, 1953-1973, Professor Emeritus of English
Ph.D.
Raymond J. Saulnier, 1938-1973, Professor Emeritus of Economics
Ph.D., LL.D.
George Woodbridge, 1960-1973, Professor Emeritus of History
Ph.D.

Other Officers of Instruction

Marion Hamilton Gillim, 1952-1974, Professor Emeritus of Economics
Ph.D.
Gladys Meyer, 1948-1974, Professor Emeritus of Sociology
Ph.D.
Basil Rauch, 1941-1974, Professor Emeritus of History
Ph.D.

VISITING FACULTY

Thomas Berry, 1973, Adjunct Professor of Religion
Ph.D., Catholic University
Donald E. Hutchings, 1972, Adjunct Assistant Professor of Psychology
A.B., Lake Forest; M.A., Ph.D., Chicago
William H. Janeway, Adjunct Assistant Professor of Economics
A.B., Princeton; Ph.D., Cambridge
Brian O'Doherty, 1970, Adjunct Professor of Art History
M.B., M.C.H., D.P.H., University College, Dublin; M.Sc., Harvard
Marjorie E. Reeves, Robb Professor of History
B.A., M.A., D.Litt., Oxon

OTHER OFFICERS OF INSTRUCTION

Regina Ayre, 1972, Instructor (Part-time) in German
B.A., Sir George Williams; M.A., Columbia
Victor F. Barr, 1967, Visiting Artist in Art History
B.F.A., Yale
Constance T. Colby, 1972, Instructor (Part-time) in English
B.A., M.A., Michigan
Flora S. Davidson, 1973, Instructor (Part-time) in Political Science
A.B., Barnard; M.Phil., Columbia
Maryann J. Fogarty, 1973, Instructor (Part-time) in Economics
A.B., Barnard
Marion T. Jones, 1974, Lecturer in History
B.A., Texas; M.A., Columbia
Bona Kostka, 1962-63; 1969, Instructor (Part-time) in Medieval and
Renaissance Studies
Dott. in Lett., Rome
Elizabeth Leighton, 1973, Instructor (Part-time) in Greek and Latin
A.B., Mount Holyoke; M.A., Columbia
Gordon J. Micunis, Instructor (Part-time) in Drama
B.A., Tufts; M.F.A., Yale
Stephen R. Munzer, 1974, Lecturer in Philosophy
A.B., Kansas; B. Phil., Oxford; J.D., Yale
Dennis B. Parichy, 1969, Technical Director, Minor Latham Playhouse
B.S., Northwestern
Lang Hoan Pham, 1972, Instructor (Part-time) in French
A.B., Smith; M.A., Columbia
Milton Resnick, 1972, Visiting Artist in Art History
Janet Soares, 1968, Associate in Dance
B.S., Juilliard; M.A., Columbia
Walter Sorell, 1969, Lecturer in Dance
A.B., M.F.A., Columbia
Beverly M. Spatt, 1971, Associate (Part-time) in Geography
A.B., Pembroke; M.A., New York University

Other Officers of Instruction

Quandra P. Stadler, 1970, Associate (Part-time) in English

A.B., Antioch

Barbara R. Stewart, 1969, Lecturer in Psychology

A.B., Barnard; Ph.D., Columbia

Billy Tracy, 1973, Instructor (Part-time) in English

A.B., M.A., Columbia



Officers of Administration

OFFICERS OF ADMINISTRATION

Martha Peterson, Ph.D., L.H.D., LL.D., President of Barnard College and Dean in the University.

LeRoy C. Breunig, Ph.D., Dean of the Faculty and Professor of French

Barbara S. Schmitter, M.A., Dean of Studies and Associate Professor of Psychology

Forrest L. Abbott, Ed.D., Treasurer and Controller

Office of the President

Jane Moorman, Ph.D., Assistant to the President

Joan B. Reid, Assistant to the President

Nancy T. Cook, Administrative Secretary

Novella I. Landau, Secretary to the President

Office of the Dean of the Faculty

Bruce Feld, M.A., Associate Dean of the Faculty

Virginia Shaw, A.B., Director of Institutional Studies and Secretary to the Faculty

Julie Marsteller, A.B., College Archivist

Office of the Dean of Studies

Marjorie H. Dobkin, M.A., Associate Dean of Studies

Absent on leave, 1974-75.

Katherine E. Wilcox, A.B., Assistant to the Dean of Studies

Toby Berger, Ed.D., Class Adviser

Vilma Bornemann, M.A., Class Adviser

Giselle Harrington, M.A., Class Adviser

Grace King, Ph.D., Class Adviser

Anya Luchow, A.B., Class Adviser

Lynda Snead, M.A., Class Adviser

Sandra Stingle, Ph.D., Class Adviser

Serge Gavronsky, Ph.D., Foreign Student Adviser

Esther Rowland, M.A., Preprofessional Adviser

Sarah Nieves, M.A., Director of Higher Education Opportunity Program

Office of the Treasurer and Controller

Helen Vanides, Executive Assistant

Office of Admissions

Helen M. McCann, A.B., Director

Margaret Dykes Dayton, M.A., Associate Director

Dorothy U. Denburg, A.B., Assistant Director

Office of the Associate Alumnae

Dena Warshaw, A.B., Director

Office of Buildings and Grounds

Erwin H. Gippner, Director

Margaret V. O'Shea, Supervisor of Building Services

Salvadore R. Delgado, Assistant Supervisor of Building Services

Office of the Bursar

Frances A. Barry, M.S., Bursar

Linda F. Mathison, B.S., Assistant Bursar

Violet Parnass, Executive Assistant

Office of College Activities

Claire C. Fay, M.A., Director

Peter Simonds, M.A., Program Director

Officers of Administration

Development Office

Barbara V. Hertz, A.B., Director
Eleanor Mintz, A.B., Associate Director
Jane Gracer, A.B., Director, Barnard Fund
Jeannette Parks, Records Administrator

Financial Aid

Theodore P. Stock, M.A., Director

Health Services

Harriette R. Mogul, M.D., Director
Lestra M. Carpé, M.D., Staff Internist
Stephen Boris, M.D., Consulting Pediatrician
Renee Jenkins, M.D., Consultant Adolescent Medicine
Susan Dresdale, M.D., Consultant Adolescent Medicine
Alan Lubin, M.D., Consultant Adolescent Medicine
Robert Schneider, M.D., Consulting Dermatologist
Antonio Calanog, M.D., Consulting Gynecologist
Camillo L. Gugliucci, M.D., Consulting Gynecologist
Lourdes Lopez, M.D., Consulting Gynecologist
Zira DeFries, M.D., College Psychiatrist
Barbara Gibbs, M.D., Consulting Psychiatrist
Denise Saks, J.S.D., M.A., M.S., Psychiatric Counselor
Lela Anderson, R.N., Head Nurse
Marianne Gelber, R.N., Gynecology Nurse

Language Laboratory

Ersi L. Breunig, Director

Library

Robert B. Palmer, M.A., M.S., Librarian
Natalie Sonevytsky, M.S., Reference Librarian
Elizabeth M. Corbett, M.S., Circulation Librarian
Patricia K. Ballou, A.B., B.S., Technical Services Librarian
Mary Ellen Tucker, A.B., Acting Acquisitions Librarian
Lynne M. Brody, M.S., Reserve Librarian
Stephanie M. Krstulovic, Technical Services Librarian

Office Services

Winifred Price, Director
Myrtle Tate, Assistant to the Director

Personnel Office

Margaret B. Lowe, M.A., Director
Barbara B. Tracy, Administrative Assistant

Office of Placement and Career Planning

Lynn H. Stephens, M.A., Director
Patricia Merkin, M.A., Associate Director

Office of Public Relations

Sarah W. Johnson, M.A., Director

Office of Purchasing

Mary Bane, Manager of Purchasing

Office of the Registrar

Mary Helen McMahon, M.A., Registrar
Doris Campbell, A.B., Assistant Registrar

Officers of Administration

Office of Residence

Blanche E. Lawton, M.A., Director

Phyllis D. Zadra, M.S., Resident Director, Residence Halls

Ann Palony, M.S., Resident Director, Plimpton Hall

James Weikart, M.A., Resident Director; 600, 616, 620

Monica Smith, Administrative Assistant

Office of Safety and Security

Raymond E. Boylan, Director

Edward F. Twohill, Night Supervisor

Women's Center

Jane S. Gould, M.A., Director

Mary Wexford, M.A., Administrative Assistant



III. An Introduction to the College

BARNARD'S HISTORY

Barnard College was among the pioneers in the late nineteenth century crusade to make higher education available to young women. The history of its achievement is an integral part of the history of Columbia University.

The University had its origin in a royal charter, granted in 1754 by George II, creating King's College. Its operations were interrupted during the Revolutionary War when its buildings were requisitioned by the Continental Armies, but it was reopened in 1784 as Columbia College and, in 1896, was designated a university.

Barnard College grew out of the idea, first proposed by Columbia's tenth president, Frederick A. P. Barnard, that young women be admitted to Columbia. Initially ignored, the idea was developed by President Barnard until it led to the creation of a "Collegiate Course for Women." Under the new plan highly qualified women were authorized to follow a prescribed course leading ultimately to a Columbia degree, but no provision was made for where and how they were to pursue their studies. Destined to fail, this arrangement was abandoned six years later when Columbia's trustees agreed to the establishment of an affiliated college for women. A provisional charter and the promise of funds were secured, and Barnard College was named in honor of its earliest and most persistent advocate.

In October 1889, the first Barnard class met in a rented brownstone house at 343 Madison Avenue with fourteen students enrolled in the School of Arts, twenty-two "specials" enrolled in science because they lacked the entrance requirements in Greek, and a faculty of six.

Nine years later Barnard moved to its present site on Morningside Heights, and in 1900 was incorporated in the educational system of Columbia University with provisions which at that time were unique among women's colleges: it was to be governed by its own Trustees, Faculty, and Dean, and was responsible for its own endowment and plant, while sharing the instruction, the library, and the degrees of a university.

BARNARD TODAY

In contrast to the pioneer days, Barnard today has a teaching staff of almost 200 men and women: outstanding scholars whose primary concern is the education of the undergraduate students at the College, and many of whom bring an added vitality to their teaching from their professional activities outside the classroom. From the original fourteen matriculated students, enrollment has increased to almost 2,000; since 1893 Columbia has awarded its degree to 17,308 Barnard students. The original pledges of support have expanded to current endowment funds of \$19,488,000.

An agreement adopted by the Barnard and the Columbia Boards of Trustees in 1973 calls for increased cooperation without assimilation between the two institutions. While Barnard maintains its identity as an independent liberal arts college for women with its own curriculum, faculty, admissions standards, and graduation requirements, it shares the resources of the University. Barnard students have open access to Columbia courses and, as an affiliate of the University, Barnard shares faculty, libraries and facilities with Columbia.

THE CURRICULUM

Specific requirements for the degree are outlined on pages 30-32. Assistance in planning her individual course of study is given by the student's class adviser, a member of the teaching staff who supervises the work of the freshman and the sophomore years.

An Introduction to the College

At the end of this period, each student chooses her major field. During the junior and senior years her major adviser guides advanced study in the area of concentration and other phases of the college work. Twenty-five departments offer major programs and seven interdepartmental majors are also available.

Classes vary in size. Those in which student participation is important are small. Introductory courses and classes taught primarily by the lecture method are often divided into small groups for conference and discussion. Laboratory work in the sciences is conducted with the most modern laboratory equipment. There are opportunities for independent work and students may also be invited to participate in research projects with members of the Faculty.

SPECIAL CONCERNS ABOUT THE EDUCATION OF WOMEN

In keeping with its tradition, Barnard is concerned with the problems and potentialities of women today. The Barnard Women's Center, now in its fourth year, reaffirms the College's commitment to helping women realize their potential. It maintains a resource collection of books and articles on women, publishes an annual interdisciplinary bibliography of research on women and has initiated both academic and nonacademic meetings and conferences. Guided by a board of students, faculty, staff, and alumnae, the Center is working to make use of its varied resources to develop effective bonds between the College and women on and off the campus.

Curricular offerings focusing on women are available in a number of departments.

THE CAMPUS

The campus occupies four acres of urban property along Broadway between 116th and 120th Streets. At the southern end of the campus, three residence buildings, Brooks, Hewitt, and Helen Reid Halls, face Altschul Court, a landscaped quadrangle.

Barnard Hall is just north of the open courtyard and contains seminar rooms, classrooms, and faculty offices, as well as a gym, a swimming pool, and dance studios. The College Parlor on the third floor is used for meetings and small social events.

Adele Lehman Hall is a modern five-story building containing the Wollman Library, faculty offices and classrooms. The library has over 119,000 volumes in an open shelf arrangement on three floors. This collection of carefully selected books is designed to cover curriculum requirements as well as to provide opportunities for independent work in many fields. A collection of approximately 3,500 music and spoken records, a large selection of periodicals and journals, photographs and art reproductions housed in a separate room supplement and strengthen the book collection. There are ample listening facilities for records and an audio-visual studio and control room for the recording of tapes and the use of other equipment. The reading areas contain a number of individual study carrels, many of which overlook a lawn surrounded by small trees and shrubs. Barnard students also have access to the University's Butler Library of almost four million volumes, one million manuscripts and fifty thousand periodical listings. The other twenty-nine libraries of the University are also available for additional research.

Helen Goodhart Altschul Hall and the Millicent McIntosh Center, which were dedicated jointly in November 1969, face each other across an open plaza. The fourteen stories of Altschul Hall are devoted primarily to the sciences but also house the Herbert H. Lehman Auditorium on the first floor, and a language laboratory on the fourth. The laboratory, which contains 60 booths, is used by both Barnard and Columbia language students. Headquarters for student activities, a snack bar and a lounge are located in the McIntosh Center. Student mailboxes are there as well as music practice rooms, recreation and television rooms, bowling alleys, an art exhibit area, and the Jean T. Palmer Room for conferences.

An Introduction to the College

Milbank Hall occupies the northern extreme of the campus and houses administrative and faculty offices; classrooms; a greenhouse; and the Minor Latham Playhouse, a small well-equipped modern theatre. The Language Departments maintain social and reading rooms in Milbank Hall.

Columbia University is directly across Broadway from the Barnard campus. Off campus, but in the immediate neighborhood, Barnard maintains other residence halls, including: 600, 616, and 620 West 116th Street, three apartment buildings owned by the College and containing suites accommodating five to six girls each; and Plimpton Hall, completed in 1968, which houses 280 students in apartment-style units. Each Plimpton resident lives in a single room in a five-room suite with a central kitchen and bath.

Barnard Camp is a 20 acre tract in Westchester County about 35 miles from New York City. The Camp and its rustic lodge, Holly House, are used by the College for both recreational and educational purposes.

STUDENT LIFE

Barnard's student population is cosmopolitan in nature. While one third of the students have families within commuting distance, the others come from nearly every state and some twenty-five foreign countries.

The students represent diversity in background and training; and a mingling of economic, regional, and cultural strains finds expression in the life of the campus.

Every Barnard student is a member of the Undergraduate Association, which sponsors extracurricular activities reflecting current interests: the college newspaper, the literary magazine, dramatic groups, political and religious organizations, and preprofessional and departmental clubs. Cooperation between Barnard and Columbia groups is common. Many activities, such as the University's chorus and its orchestra, its radio station, and a community service program enlist members from both campuses.

During the past five years the structure of Barnard's student government has undergone fundamental revision, culminating in the development of twelve tripartite college committees. Students, faculty, and administrators serving on these committees share responsibility for policy decisions in the areas of curriculum, housing, financial aid, orientation, and the library.

The Honor Code, instituted at Barnard in 1912, governs all aspects of academic life and is administered by the student Academic Council. A Judicial Council of undergraduates, faculty and staff, recommends disciplinary action for nonacademic offenses.

Religious organizations and activities with headquarters on the Columbia campus at Earl Hall encompass nearly every faith and are open to all students. The Thursday Noon Meeting at Barnard provides a weekly forum for discussion of a wide range of contemporary issues. Student artists with a diversity of talents and interests collaborate to produce the free-wheeling Spring Festival.

The Recreation and Athletic Association sponsors many campus activities, including tennis, basketball, water ballet, fencing, and modern dance, as well as some athletic events with other colleges.

NEW YORK

More than fifty years ago, Nicholas Murray Butler, one of Columbia's great presidents, observed, "New York is intensely cosmopolitan and contact with its life for a short time during the impressionableness of youth is in itself a liberal education." The city is an extension of the campus, utilized by every department to narrow the gap between learning and living. Barnard is a university college in an international city, and today the curriculum affirms and encourages precise and graphic use of its vast metropolitan resources.

IV. Admission

Since entering classes are limited in size, admission to Barnard College is on a selective basis. The Committee on Admissions endeavors to choose candidates who seem most receptive to the discipline and challenge of a liberal arts education. Each applicant is considered in the light of her past performance, the qualities of mind and spirit which insure her growth as an individual, and her ability to contribute to the growth of those with whom she will associate in college and throughout her adult life.

The College believes it is also desirable for the student body to represent a stimulating variety of schools, both public and independent, from all parts of the United States and from abroad.

Students who can visit the college for an interview should plan to do so in the fall of their senior year, or in the late spring of the junior year; others may arrange interviews with Barnard Area Representatives whose names are listed on pages 224 to 228.

ADMISSION TO THE FRESHMAN CLASS

Application for admission to the freshman class should be made before January 1 of the year of entrance. It is advisable, however, to apply by the end of the junior year or the fall of the senior year. Application forms may be obtained by writing to the Director of Admissions.

A nonrefundable fee of \$15 must accompany each application. Checks or money orders must be in U.S. funds drawn on a U.S. bank, and made payable to Barnard College.

Students are admitted to the freshman class in September. They must be at least fifteen years of age, and should present the following credentials:

Evidence of good character, which is obtained from confidential reports from the applicant's secondary school principal and teachers and, if possible, through a personal interview at the College.

Evidence of sound health, to be submitted as soon as the applicant has been accepted, on forms provided by the Office of Admissions.

Evidence of intellectual ability and achievement, which is reported by the secondary school to the College, and is also demonstrated by the required College Entrance Examination Board tests.

Candidates for admission must offer a college preparatory program from an approved secondary school or should have equivalent education representing a four-year course of study. Academic preparation for admission should be based on the requirements for the A.B., or liberal arts, degree. A recommended program would comprise four years of work in English; three years in mathematics; four years in a foreign language (ancient or modern); one year in a science with laboratory; and one year in history. An introduction to a second foreign language is generally useful. The remainder of the program would include additional work in the aforementioned subjects with the possible addition of music and art.

The Committee on Admissions is willing to consider the applications of students whose preparation may vary from the usual pattern but whose records give evidence of genuine intellectual ability and interest.

Every candidate for admission to the freshman class is required to take the College Entrance Examination Board Scholastic Aptitude Test and three Achievement Tests. The latter must be taken in (1) English composition, (2) a foreign language, and (3) history, science, or mathematics. The Scholastic Aptitude Test must be taken in November or December of the senior year in high school. Achievement Tests in continuing subjects (English, foreign languages, mathematics, etc.) must be taken in November or January of

the senior year. Achievement Tests in one-year subjects or those completed in the junior year may be taken in May of the junior year. It is the student's responsibility to direct the College Entrance Examination Board to send official test scores to the Office of Admissions.

EARLY DECISION PLAN

In order to alleviate some of the problems arising from multiple applications, Barnard, with the other members of the Seven College Conference, has agreed to take action in the fall of the senior year on applications of well-qualified students who have made their choice of a college by that time. Students wishing to apply under this plan should signify their intention when they request application papers. They must be certified by their school as having filed only one application.

Single-choice candidates for Barnard admission should send their application to the Office of Admissions, Barnard College, New York, N. Y. 10027, before November 1 of the senior year. Applications must be accompanied by the \$15 application fee. Late in November Barnard will send to single-choice applicants letters of admission or rejection, or, in doubtful cases, postponement of decision until the customary date in the spring. Each applicant will be considered on the basis of (1) the recommendation of her school principal or counselor, (2) her three-year record at school, and (3) the results of the required College Board Scholastic Aptitude Test and the three Achievement Tests taken in her junior year in English composition, a foreign language, and history, science, or mathematics.

The successful candidate will be expected to complete her senior year satisfactorily and to submit a record of that year's work. She will not be asked to repeat any College Board examinations. She must agree to pay to Barnard in January a deposit of \$100, if she is to be a commuting student, and \$200, if she is to be a resident student, to hold her place in the freshman class.

The candidate on whose application decision has been postponed will be given full and careful consideration in the spring. She will be asked to submit a record of her school work for the first half of her senior year and the results of senior College Board Scholastic Aptitude and Achievement Tests as additional evidence.

Candidates on whose credentials favorable action is not taken may file applications at other colleges after receiving their notification from Barnard.

THE COLLEGE ENTRANCE EXAMINATION BOARD TESTS

The College Entrance Examination Board will administer the following series of tests in 1974-1975.

Scholastic Aptitude Test Only:

October 12, 1974 (California and Texas only)

November 2, 1974

December 7, 1974

February 1, 1975

April 5, 1975

June 28, 1975

Achievement Tests Only:

November 23, 1974

January 11, 1975

May 10, 1975

Candidates should write directly to the College Entrance Examination Board, Box 592, Princeton, New Jersey 08540, for the Bulletin of Information containing descriptions of the Scholastic Aptitude and Achievement Tests, directions for filing applications, and lists of examination centers. When requesting the application forms, candidates should state the month in which they wish to take the tests.

Admission

Residents of California, Oregon, Washington, Idaho, Montana, Wyoming, Utah, Colorado, Nevada, Arizona, New Mexico, Alaska, Hawaii, Australia, Mexico, and the Pacific Islands should write to the Pacific Coast Office of the Board, Berkeley, California 94701.

To facilitate the arrangements for the conduct of the tests, all applications should be filed as early as possible. The normal closing date for the receipt of applications in Princeton, New Jersey, or Berkeley, California, for candidates outside the United States, the Canal Zone, Canada, Mexico, and the West Indies is two months before the date of the examination; for all other candidates the closing date is approximately five weeks before the date of the examination. A penalty fee will be charged for applications received later than the normal closing date.

No applications received in Princeton or Berkeley later than two weeks before the examination date will be considered. Candidates may not register for the tests at the examination centers. Each application should be accompanied by the appropriate examination fee. Please refer to the College Board Handbook for information about deadlines and fees.

The Board will report the results of the tests to the institutions indicated on the candidates' applications. The colleges, in turn, will notify the candidates of the action taken on their applications for admission.

ADMISSION WITH ADVANCED PLACEMENT

Students who have completed advanced work in secondary school and who present satisfactory scores on the Advanced Placement Tests of the College Entrance Examination Board may be placed in courses above the level of the freshmen year, at the discretion of the departments concerned.

Students with scores of 4 or better on the College Entrance Examination Board Advanced Placement Tests may be given credit toward the thirty-five course requirement for the degree, provided the Barnard departments concerned so recommend. Credit for advanced placement work will in no case be in excess of four semester courses. A petition for credit must be submitted to the Committee on Programs and Academic Standing.

ADMISSION OF TRANSFER STUDENTS

Barnard welcomes transfer students and each year accepts between one hundred fifty and two hundred to the sophomore and junior classes. Application for acceptance with advanced standing should be submitted before May 15 for admission in September and before November 15 for admission in January.

Candidates should present a strong record of not less than one year's work at an accredited college, or foreign university, or institution of equivalent grade. In general, credit is given for courses taken at another college which are similar in content to those offered at Barnard. (See also page 32.)

The student should submit her formal application and the following credentials: her secondary school record, a recommendation from her principal and her college dean or class adviser, a complete and official transcript of her college work and a copy of the college catalogue in which the courses she has taken are clearly marked, and the results of the College Entrance Examination Board tests. A candidate will be asked to take the College Entrance Examination Board Scholastic Aptitude Test if she has not already done so. No definite credit for junior college work can be assigned until the student has had an opportunity to establish a satisfactory record at Barnard.

Acceptance is subject to receipt of a statement of honorable dismissal, which is a

certificate of good character from an authorized college representative, a satisfactory final transcript, and the required health reports. If these credentials are not received, the student must postpone registration until after classes begin. There is an additional \$15 fee for lateness.

Seniors who are degree candidates at other colleges may apply for permission to complete their requirements at Barnard. Each applicant must present satisfactory college records and letters of approval from her Dean and her major adviser, and agree to comply with all Barnard regulations concerning attendance and course examinations.

ADMISSION OF FOREIGN STUDENTS

The College is interested in the applications of qualified foreign students. Candidates are expected to take the Scholastic Aptitude Test given by the College Entrance Examination Board, if they can arrange to do so. (This test examines the student's ability to understand word relationships and to comprehend what is read, and the ability to understand and solve mathematical problems.) Freshman candidates should also present the Achievement examination results. Requests for an examination center overseas should reach the Board, Box 592, Princeton, New Jersey 08540, two months prior to the dates listed on the previous pages.

Knowledge of the English language is essential for admission. It is recommended that applicants take the TOEFL, Test of English as a Foreign Language. Information about registration should be obtained by writing to the TOEFL Program, Educational Testing Service, Princeton, New Jersey 08540. If the results of this examination cannot be presented, students whose native language is not English are required to take the American University Language Center Test. Arrangements for it should be made through the United States Consulate.

During the week of registration (September or January) all foreign students must take English placement tests in writing, aural comprehension, and speech. Failure to pass these tests will necessitate remedial courses in English at Columbia University, either without academic credit or with limited credit, depending on the level of the course and the grade obtained. No credit is assigned for other academic courses until the remedial work is successfully completed.

Limited financial aid is granted to qualified applicants. Admitted students should direct an inquiry to the nearest American Embassy concerning the possibility of securing a Fulbright travel grant. Employment during the first year here is not permitted. Official approval must be obtained from the Immigration and Naturalization Service for paid work after the first year.

Definite credit for study at foreign institutions may not be assigned until a full year of satisfactory work has been completed at Barnard. It is hoped that the foreign student will return to her home country and utilize her education after completion of studies in the United States.

Candidates are urged to communicate with the Director of Admissions well in advance of the date they wish to enter, so that the College may assist them with their plans.

READMISSION

Students who have not been registered for more than two consecutive terms must make application for readmission to the Director of Admissions by November 15 for the Spring Term and by May 15 for the Autumn Term. Completed applications include all required credentials (medical reports, transcripts, recommendations) and a nonrefundable fee of \$15.

V. Degree Requirements

ACADEMIC REQUIREMENTS FOR THE A.B. DEGREE

Requirements for the Bachelor of Arts degree are flexible and have been planned to serve as a framework for the study of various fields of human thought. They should provide a foundation in the liberal arts and sciences on which to base more intensive work in specific fields. All requirements must be completed within six years of the student's matriculation as a freshman. These requirements call for the completion of 35 semester courses and include the following:

I. Basic

English A. (Foreign students please refer to page 29.)

One science (two semesters), with laboratory. See departmental statements for specific courses which fulfill the requirement.

Foreign language. Competence in an ancient or modern foreign language. This requirement may be fulfilled either by passing an examination with a sufficiently high score, or by satisfactory completion of a designated course. (See the statement under the appropriate language department for further details.) For languages not offered at Barnard, the student should consult the Chairman of the Language and Literature Committee.

II. General

Completion of six semester courses outside the major department, selected from the categories listed below. Only those courses in this catalogue which are prefaced by the symbol **S** may satisfy the requirement, and no more than two in any single category may be counted.

1. Art history; music; Dance 65,66
2. Literature in the language in which it was originally written
3. Philosophy; religion; Oriental Humanities
4. History; Oriental Civilizations
5. Mathematics
6. Anthropology; economics; geography; political science; linguistics; sociology

III. Major

A major field is to be selected before the end of the sophomore year, consisting of at least eight courses, as prescribed by the department. Each department requires, as specified, a senior essay or a major examination or some equivalent demonstration of proficiency in the discipline. A major may be chosen in any one field, or in such combinations as are approved by the Committee on Programs and Academic Standing.

IV. Physical Education

Four terms required. Two terms in the freshman year and two additional terms.

SENIOR SCHOLAR PROGRAM

The Senior Scholar Program allows especially qualified students to undertake a single project in the senior year, or in one semester of the senior year, normally the second. The program is intended to meet the needs of those few students who come to the senior year with a record of unusual accomplishment in a specific area of scholarship, or in the practicing arts. A student with such qualifications should consult the Associate Dean of the Faculty by midsemester of the second term of the junior year. At the conclusion of the junior year, the student should have completed all basic and general requirements for the degree.

EXPERIMENTAL COLLEGE

The Experimental College was begun in 1969 by students who believed that learning could best occur in a group, housed together and devoted to the study and practice of educational change. Students in the Experimental College have the opportunity to develop courses and projects that may be both an accompaniment of and a contrast to the existing college structure. A committee of faculty members and students assist the coordinator in screening proposals for group and individual projects, in helping to initiate projects, and in devising methods of assessing them. The number of students enrolled for credit in any term is limited to forty, of which approximately one-half will be resident members. See page 126 for further details about eligibility and credit.

RESIDENCE

Students are expected to be registered for full-time work for four years. Requests for acceleration must be submitted to the Committee on Programs and Academic Standing and must require no other exceptions to the normal degree requirements. Permission to complete the work for the degree while registered *in absentia* may be granted under certain conditions on application to the Committee on Programs and Academic Standing.

GRADING SYSTEM

Academic standing and eligibility for graduation are determined by the quantity and quality of the student's work. Quality of work is indicated by the following grades: A or A—, excellent; B+, B, B—, good; C+, C, C—, fair; D, poor; F, failure, and P, passed without a specific grade.

A course is marked Inc. (incomplete) to indicate postponement of required work and Abs. (absent) to indicate absence from the final examination. Failure to complete such work according to terms set by the Faculty will result in marks of NC (no credit) if the completed portion of the work is passing, or F if prior work is unsatisfactory.

The entry Y-C signifies that the grade on completion of the second term will apply to the first term as well.

WDF signifies withdrawal from a course without formal notification to the Registrar, and is considered equivalent to F.

Pass-fail grades are recorded for all students in some courses and at the individual request of the student in courses for which letter-grades are normally assigned. Faculty regulations govern the number of courses which must be assigned letter-grades, and the options for pass-fail grades. These regulations are published by the Registrar's Office and are distributed to students with their registration materials. The following regulations apply to all students:

All courses required for the major must be assigned letter-grades.

Grades of P are not included in the grade point average.

No limitation is placed on the number of pass-fail grades which may be recorded in a single term, except those rules which apply to the Dean's List and to eligibility for financial aid.

In the computation of grade averages, marks for courses are awarded points on the following scale: A = 4, B = 3, C = 2, D = 1, F = 0. For every plus or minus unit an adjustment of +0.3 or -0.3 is made. In order to be recommended for the degree a student must maintain a cumulative average of 2.00 (C) for 35 or more courses

Degree Requirements

completed with grades of D or above. At the end of each term all records are examined. Normally only those students with cumulative averages of 2.00 or above are permitted to remain in college. Continuance in college of students whose work falls below this average depends upon promise of future achievement and is determined by the Committee on Programs and Academic Standing.

Courses which receive marks of D may not be counted toward the minimum number of courses required in the major field, although they are included in the average for the major.

REQUIREMENTS FOR TRANSFER STUDENTS

Transfer work is evaluated after a complete official transcript is received in the Office of the Registrar. Transfer students are asked to submit catalogues and course descriptions. When possible, estimates of credit granted and requirements fulfilled will be made available before registration.

Credit for approved transfer work is allowed in proportion to the degree requirements of the student's previous college and is converted to an equivalent proportion of the thirty-five courses required for Barnard graduation. A maximum of eight to nine courses toward the degree is allowed for each year's work elsewhere. No more than four summer courses may be offered by any student in fulfillment of the minimum requirements for the degree. (See regulations for Summer Study.) Acceptable transfer work does not usually include applied or professional courses or more than the equivalent of two Barnard studio courses.

To receive a Barnard degree, a transfer student must attend Barnard for at least four regular academic terms and must complete at least eighteen courses while registered in the college, including no fewer than six courses in the major field. Additional major courses as well as basic and general requirements may be satisfied by transfer courses. Exemption from the Foreign Language requirement may be attained on the basis of College Entrance Examination scores alone or by a combination of those scores and additional college work. Those who do not receive exemption will be assigned to language courses leading to fulfillment of the requirement.

General college honors are awarded to transfer students when both their over-all and Barnard averages meet the required academic standards.



VI. General Information

REGISTRATION

Class advisers are appointed from the teaching staff and may be consulted by students with individual questions or for information about the various services and activities of the college. Freshman and sophomores plan their programs in conference with their class advisers and obtain their signatures on all official forms and documents. Major advisers are appointed in each department to aid juniors and seniors in planning their general programs and in completing the requirements of their particular fields.

Registration and program-filing take place each term according to a schedule mailed to all students before the beginning of the term. Failure to register or to file a program at the assigned times will entail the payment of additional and progressively greater fees. Permission to register or to file programs cannot be granted after the fifth week of the term.

No student may be registered simultaneously in any other school or college without the consent of the Dean of Studies.

LANGUAGE PLACEMENT EXAMINATIONS

Fulfillment of the foreign language requirement or placement in a language course may be achieved on the basis of College Entrance Examination Board scores or previous college courses or both. Examinations are given before registration for students who have studied foreign languages but who cannot be given placement in the above ways. Any student who wishes to take a placement examination may do so, and she must accept the placement she receives.

ACADEMIC DISCIPLINE

Enrollment in the College, award of academic credit, and conferring of the degree are subject to the disciplinary powers of the College. Students should familiarize themselves with College regulations as described in a "A Guide to Barnard."

ATTENDANCE

Students are expected to attend classes regularly. Frequent or prolonged absences from the College or from classes may cause a student to forfeit the right to complete course work or take final examinations.

All absences due to illness must be reported to the Office of Health Services. Illness is considered an excuse for absence only if the student's statement is filed immediately upon her return to college.

Barnard is a nondenominational college; students who cannot attend classes on days set apart for religious observance should make individual arrangements with instructors to fulfill course requirements.

WITHDRAWAL WITHIN A TERM

A student not subject to discipline for infraction of College rules may withdraw from the College during the term by giving notice of intention to withdraw in writing on forms obtained from the Office of the Dean of Studies. Signature by a parent or guardian is required. Failure to submit the proper notification on the part of a student who withdraws while College is in session may result in a report of WDF for the term's work.

WITHDRAWAL AT END OF TERM

A student who plans not to register for the following term should file an appropriate form in the Office of the Dean of Studies. A student in good health who leaves with her

General Information

record complete and who is in good standing may re-register within one year without reapplying through the Office of Admissions. If she confirms her intention to return by writing to the Dean's office by April 1st for the Autumn Term or November 15th for the Spring Term, no readmission fee will be charged. After an absence of one year all students must file readmission forms through the Office of Admissions and pay readmission fees.

CLASSIFICATION OF STUDENTS

Students are classified as follows:

Freshmen — those who have completed fewer than 7 courses

Sophomores — those who have completed 7 courses

Juniors — those who have completed 15 courses

Seniors — those who have completed 25 courses

Unclassified — those who have not yet been assigned definite credit on transfer

Nonmatriculated — those who are not candidates for the degree

No matriculated student may change her status to that of nonmatriculated student.

PROGRAM-FILING

Programs are filed with the Registrar on designated dates in each term (see College Calendar). After these dates, new courses may not be added, and other changes are subject to the following regulations:

Section Changes. Sections may not be changed except at the written request of the instructor.

Dropping Courses. A course may be dropped with the written approval of the class adviser (for freshmen and sophomores) or the major adviser (for juniors and seniors). After a fixed date (see College Calendar) no course may be dropped except with the approval of the Committee on Programs and Academic Standing.

COLUMBIA UNIVERSITY COURSES

All programs require an adviser's written approval. **C** courses, **F** courses, and **W** courses below 4000 (except education) may be elected without additional approval.

Juniors and seniors who elect courses which are not listed in this announcement and which are not in their major fields should obtain approvals of their class advisers in addition to signatures of major advisers. The numbers of such courses are prefixed by **A**, **B**, **E**, **G**, **J**, **K**, **L**, **M**, **Q**, **R**, **T**, **U**, **W** education, **W4000** and above, **Z**.

All Teachers College courses not cross-listed as part of a Barnard offering are subject to approval of the Committee on Programs and Academic Standing and to payment of additional fees.

Normally, only courses which are credited in their respective catalogues with 3 or more points may be used to satisfy the requirements for the degree. Exceptions to this regulation include applied music activities which carry partial course credit and which may involve extra charges, and approved laboratory units in science courses.

SUMMER STUDY

Students are expected to complete the work for the degree in eight academic terms at Barnard. Summer courses may be credited by the approval of the Committee on Pro-

grams and Academic Standing when a student has received permission to accelerate or when she has incurred deficiencies in numbers of courses or in requirements. No more than four summer courses may be taken for credit toward the degree.

Requests for summer study credit must receive the written approval of the chairman of the appropriate Barnard department. This endorsement may be secured in advance and filed with the Registrar. Students are responsible for insuring that official reports of summer work grades are submitted to the Registrar as soon as possible in the ensuing autumn term. The following regulations apply to all summer work.

Not more than two one-semester courses may be elected in any one summer session.

Courses of less than six weeks' duration are credited only in exceptional cases.

No course with a grade lower than C will be credited toward the degree.

Grades will not be included in the Barnard average.

FINAL EXAMINATIONS

Final examinations are scheduled at the end of each semester (see College Calendar).

Deferred examinations for Barnard courses, given in September and February, are open only to those students whose work is satisfactory and who were absent from the regular examinations for reasons of illness or emergency. Exceptions to these conditions can be made only by petition to the Committee on Programs and Academic Standing before the regular examination period begins.

Absence for reasons of health on the day of an examination should be reported to the Office of Health Services.

Examinations missed in December are to be taken the following February or, in cases of prolonged illness, in September of the same year. Those missed in May are to be taken in September of the same year. If a student absents herself without a valid excuse from a final or deferred examination, she will receive a grade of zero for that examination. A fee of \$10, payable in advance, is charged for each deferred examination. A senior who has missed an examination at the end of her last term may apply for a special examination for which the fee is \$10, payable in advance.

Arrangements for deferred examinations in Columbia University courses must be made by the student with the instructors, and should be completed during the term following registration for the course.

EXAMINATIONS DURING THE TERM

Instructors are not required to give make-up examinations to those absent from previously announced tests. An instructor who is willing to give a make-up test may request a report of illness from the College Physician or acceptable evidence of other extenuating circumstances.

READING PERIOD

There are no class meetings on the last class day before the final examination period in each term. This interval may be extended for any class, at the option of the instructor, to the full week prior to the examination period.

TRANSCRIPTS

Transcripts for the previous term are sent to all students in February and June without charge. Additional unofficial copies of transcripts may be obtained from the Registrar. Official copies of transcripts bearing the seal of the College and the signature of the

General Information

Registrar of the College can be sent only to academic institutions, business organizations, and government offices, at the request of the student. A fee of \$1.00 is charged for each transcript ordered.

DEGREES

Students are recommended by the Faculty of Barnard College to the Trustees of Columbia University for the degree of Bachelor of Arts. Degrees are granted in May, October, and January. A statement of intention to complete the work for the degree on any one of these dates must be filed with the Registrar at the announced time (see College Calendar). Graduation ceremonies are held in May.

HONORS

The Faculty awards honors to students who complete work for the degree with distinction (*cum laude*, 3.25), with high distinction (*magna cum laude*, 3.50), and with highest distinction (*summa cum laude*, 3.75). Students whose records include work done at another institution will be eligible for honors if both the over-all and the Barnard averages meet this requirement. Departmental honors are awarded to graduates who are recommended by their departments for distinguished work in their major fields.

DEAN'S LIST

A Dean's List, which contains the names of students who deserve special mention for superior scholarship, is compiled at the end of each academic year. Eligibility is based on at least three grades each term, exclusive of those courses receiving P.

PHI BETA KAPPA

The Barnard section of the Columbia University chapter of Phi Beta Kappa was founded in 1901. Election to the national honor society is a recognition of scholarship, and Barnard students of exceptionally high standing are eligible. Questions concerning Phi Beta Kappa should be referred to the Office of the Dean of Studies.

THE HONOR SYSTEM

An integral and pervasive aspect of academic life at Barnard College is the school's Honor System, instituted in 1912. Under it, a student is expected to maintain responsibility for her own conduct and to show consideration for other members of the community in academic matters. This code of responsibility for oneself and to the community applies to such areas as signing of class attendance sheets, taking examinations, preparation of assignments, and use of the Library. Administration of the Honor Code and any infractions of it which may occur are dealt with by the Academic Council, but the success of the Honor System depends on the integrity of each individual Barnard student.

HEALTH

The Student Health Service provides diagnosis and treatment of most chronic and all acute medical conditions. The staff is composed of a Director (an internist), consultants in Adolescent Medicine, Gynecology, and Dermatology, two psychiatrists, one psychiatric counselor and three nurses.

Complete examinations are performed on Seniors in the Autumn semester and Sophomores in the Spring semester. They are not mandatory but are recommended and are necessary if health certificates are needed.

All students, residents, nonresidents, and commuters, must immediately report any illness, however minor, to the Office of Health Services. If resident students wish to have

someone other than the Health Services physicians care for them, their parents must address a request to the Director and send her the name and address of the doctor before registration.

HOUSING

Traditionally, Barnard has attracted students from all over the world as well as from its own community, New York City, and its suburbs. At present the College has academic facilities for 2000 students, of whom approximately 1150 can be housed in the campus residence halls and the Barnard cooperative apartment residences adjacent to the campus. Additional rooms may be assigned by the College in other residences near the campus.

The Director of Residence must know before academic registration each term where every student is living and must have any permission forms required of the student complete and on file. Any student who wishes to change her address at any time after her first registration for a given academic term (even when returning to her legal home) must file her new address with the Director of Residence.

To arrange for off-campus housing, the parent or legal guardian must sign an Off-Campus Housing Permission Card stating that he or she takes full responsibility for the student's health, safety and finances. Permission is official when the card is on file at the College. The College strongly recommends that two or more students live together. Should a student return to her legal home, she must notify the Director of Residence.

HOUSING CLASSIFICATIONS

Students are classified as residents, nonresidents, or commuters when they enter Barnard. Housing classifications may change on the basis of the following:

1. if the legal residence changes (i.e., the residence of the parent or legal guardian);
2. in case of nonresidents, if they are assigned a room in one of the residences owned and operated by the College, resident status is assigned;
3. in case of residents, if they move off campus, they are reclassified non-resident.

Resident

A resident is a student whose legal home is outside the commuting area and who is assigned a room by the Director of Residence in one of the residences owned and operated by the College, or in housing leased by the College.

Nonresident

A nonresident is a student whose legal home is outside the commuting area who is not assigned space in one of the residences owned and operated or leased by the College. The parent or legal guardian must submit a written request for off-campus housing (any housing arrangements not within a Barnard-owned and -operated residence) to the Director of Residence by August 1 for the Autumn Term and by December 1 for the Spring Term. When the student accepts a room in college housing, her housing classification changes to that of resident.

Commuter

A commuter is a student whose legal home falls within the geographic area prescribed by the College as the commuting area. Commuters are eligible for College-assigned housing when space is available. Assignments are on a semester basis. Commuters are not reclassified as residents. Priority is based on academic class and distance. If a commuter is given permission for off-campus housing, her name will be removed from the waiting list for College-assigned rooms unless she specifically requests that it should remain.

General Information

Eligibility

In order for a student to retain eligibility for housing she must be registered for a full academic program. Exceptions may be made for second semester seniors who need to take less than a full program to complete the degree requirements or for students who have permission from the Dean of Studies to take a reduced program.

Any other requests may be forwarded to the Director of Residence, for appropriate consideration.

COLLEGE-OWNED AND OPERATED RESIDENCES

Assignments are made by the Director of Residence according to the following priority: resident upperclassmen; incoming resident freshmen; non-residents who wish to change their status to resident; re-admitted resident students; non-resident transfer students; commuters who wish resident accommodation on a temporary, semester basis without a change of housing status.

SUPERVISED DORMITORIES

1. **Brooks, Hewitt and Reid Halls**, supervised dormitories at 3001 Broadway, are operated as one complex with space for approximately 515 students. Rooms are primarily singles and doubles. Freshmen are usually assigned to double rooms. All students living in these halls are required to subscribe to the College meal plan. Rooms are \$775 singles; \$725 doubles or other multiple occupancy per academic year. Board \$580 per academic year; fifteen meals per week (Monday through Friday).

2. **616 West 116 Street**, an apartment-style supervised residence directly across the street from the other halls, provides housing for 212 residents in suites of single and double rooms accommodating five or six students. Each suite has a kitchen and bath. Rooms are \$840 singles; \$790 doubles per academic year. Subscription to the food plan is optional.

3. **Plimpton Hall**, an apartment-style supervised dormitory on Amsterdam Avenue and West 121 Street, a short walk from the main campus, provides housing for 280 residents in suites of five single rooms. Each suite has a kitchen and bath. Rooms are \$840 per academic year. Subscription to the food plan is optional.

OFF-CAMPUS RESIDENCES (Parental permission is required in order to reside in these buildings.)

1. **620 West 116 Street**. Barnard College has limited space available in this apartment building. There is no resident supervision. Seniors have first priority for this space. Rooms are \$840 singles per academic year. Subscription to the food plan is optional.

2. **600 West 116 Street**. Barnard College has limited space available in this apartment building. There is no resident supervision. The rooms are \$840 for singles and \$790 for doubles, per academic year. Subscription to the food plan is optional.

The College has instituted co-educational housing with Columbia College. This program involves several College dormitories at Barnard and Columbia. Parental permission is required in order to reside in Columbia College housing.

MARRIED STUDENTS

Students who plan to marry during the academic year and continue in college are asked to notify the Dean of Studies. Married students, as a rule, will not be allowed to remain in the college residences. They will be subject to the financial obligations which pertain to any student who withdraws from the residence halls or from the College during the term.

FINANCIAL AID FOR ROOM AND BOARD

A Barnard student whose academic record and financial situation make her eligible for financial aid from the College will have the cost of room and board considered in her award if she is classified as a resident student and resides in College housing.

OFFICE OF PLACEMENT AND CAREER PLANNING

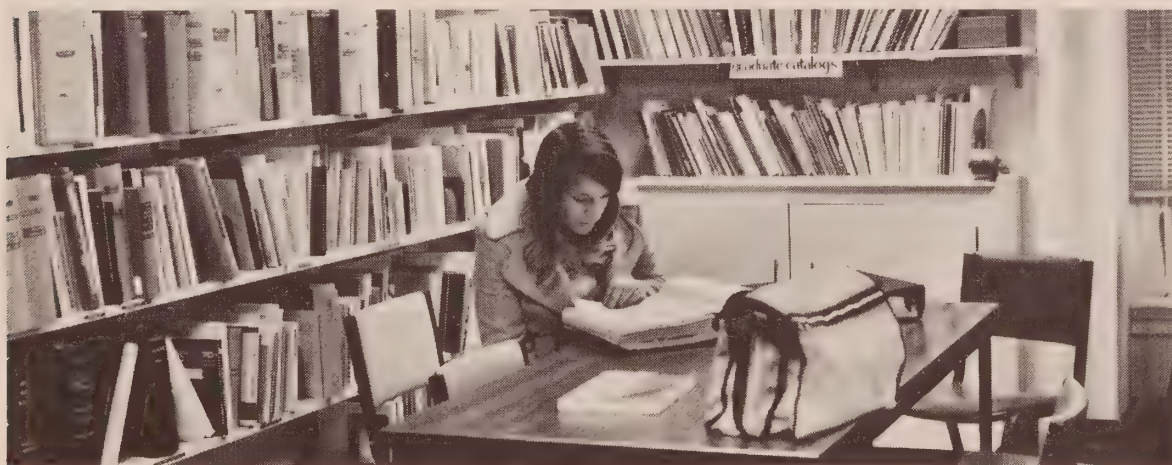
The Office of Placement and Career Planning helps students and alumnae define and implement career plans. In providing this service, the Office has developed a range of projects and activities that keep students and alumnae informed of current labor market trends.

The Office is open twelve months a year and during that time contacts hundreds of potential employers. The staff also does research on fields that Barnard students and alumnae indicate are of interest. A library of vocational material and a collection of catalogues from graduate and professional schools are housed in the Placement Office. Credentials for employment are sent out at the request of alumnae and seniors.

Fifty percent of Barnard undergraduates do some part-time paid work during the school year and these students rely on the Placement Office for current job listings and support in making applications. The listings are for both on- and off-campus jobs and range from typing to tutoring, laboratory research to retail sales. The Barnard Babysitting Service and Bartending Agency, run from the Office, receive over five thousand requests annually for students to work, and provide an additional source of part-time income.

Approximately 75% of Barnard students have summer jobs. The Placement staff helps these students locate work, provides information on special programs and internships, and contacts hundreds of potential summer employers throughout the United States. Average earnings for full-time jobs range from \$650 to \$1,350. The Federal Work-Study Program is an additional source of jobs during the school year and summer for students eligible for financial aid.

The Placement Office undertook a number of special projects during the 1973-74 academic year. With the Women's Center and the Preprofessional Adviser the Office ran a series of career workshops entitled "After Barnard What?" During the January semester break, the staff worked with the Associated Alumnae to set up an off-campus internship program that allowed students to explore career areas that interested them under the sponsorship of an alumna established in that area. Finally, in February 1974 the Office cosponsored with Mademoiselle Magazine a day-long career conference entitled *The Workshop* for women job-hunters throughout the metropolitan area.



VII. Courses of Instruction

Course descriptions will be found in the following pages. More information may be obtained from the chairmen of the departments at registration periods and during the academic year. The College reserves the right to withdraw or modify any course or to change the instructors as may be necessary.

Room assignments are published in a separate bulletin and distributed during registration.

Autumn Term courses carry odd numbers, Spring Term courses even numbers, year courses consecutive odd and even numbers. An even number followed by **x** indicates a course given in the Autumn Term. An odd number followed by **y** indicates a course given in the Spring Term.

Indivisible Barnard courses which run throughout the year are marked with a hyphen between the numerals (Music 1-2). No credit is given for work in an indivisible course dropped at midyear without the written consent of the instructor and departmental chairman and the approval of the Committee on Programs and Academic Standing.

Divisible courses which run through the year are marked with a comma between the numerals (Geography 1, 2). The first half of such courses may be taken separately. Admission to the second half without completion of the first half is granted only if written permission of the instructor is obtained.

The following alphabetical prefixes designate the division of the University for whose students the course is primarily offered or indicate joint courses.

C – Columbia College

F – School of General Studies

G – Graduate School of Arts and Sciences

R – Program in the Arts

V – Joint undergraduate course with Columbia College and/or the School of General Studies

W – Other inter-faculty course

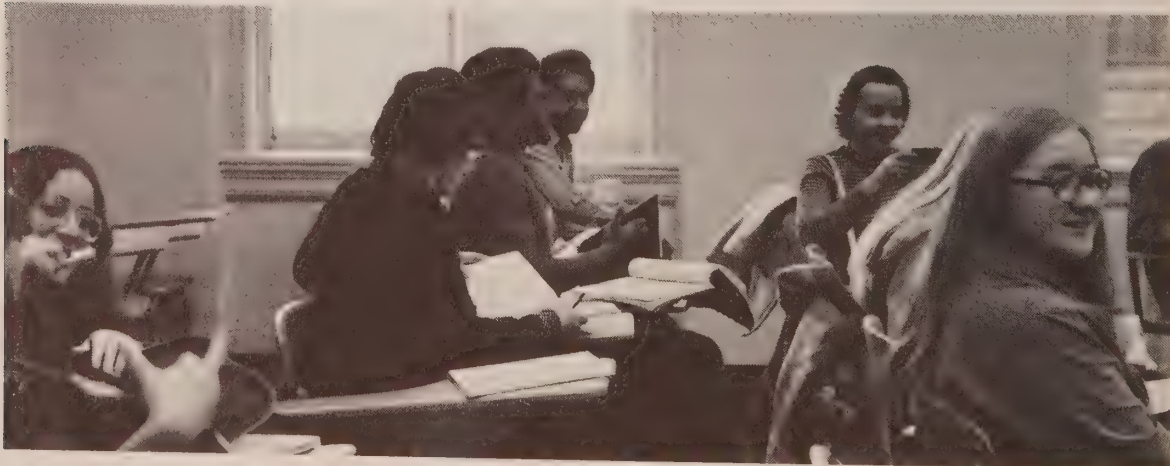
The level of the course in general is as follows:

1000-3999 Undergraduate

4000-5999 Graduate, open to qualified undergraduates

6000-8999 Graduate, normally not open to undergraduates

The symbol **x** follows the number of a course given in the Autumn Term; the symbol **y** follows the number of a Spring Term course.



This program is supervised by the Committee on American Studies:

Professor of History

Annette K. Baxter, Chairman

Professor of Art History

Barbara Novak

Assistant Professor of History

John W. Chambers

Associate in English

R. Christine Royer

The purpose of the program is to develop understanding of American civilization considered as a whole. The results of specialized study in all fields of learning dealing with American subject matter are assembled for the work of the senior seminar.

A major in American Studies: In order to acquire a broad understanding of American civilization and acquaintance with various methods of studying it, a student who majors in American Studies must take a program, planned in consultation with her major adviser, which includes the following: (a) Two courses selected from among ancient, medieval, or European history in any combination. (b) Two courses in American history. (c) Two courses in social science dealing primarily or partly with American subject matter. (d) Two courses in humanities dealing primarily or partly with American subject matter. (e) In the junior year American Studies 1-2, and in the senior year American Studies 3-4.

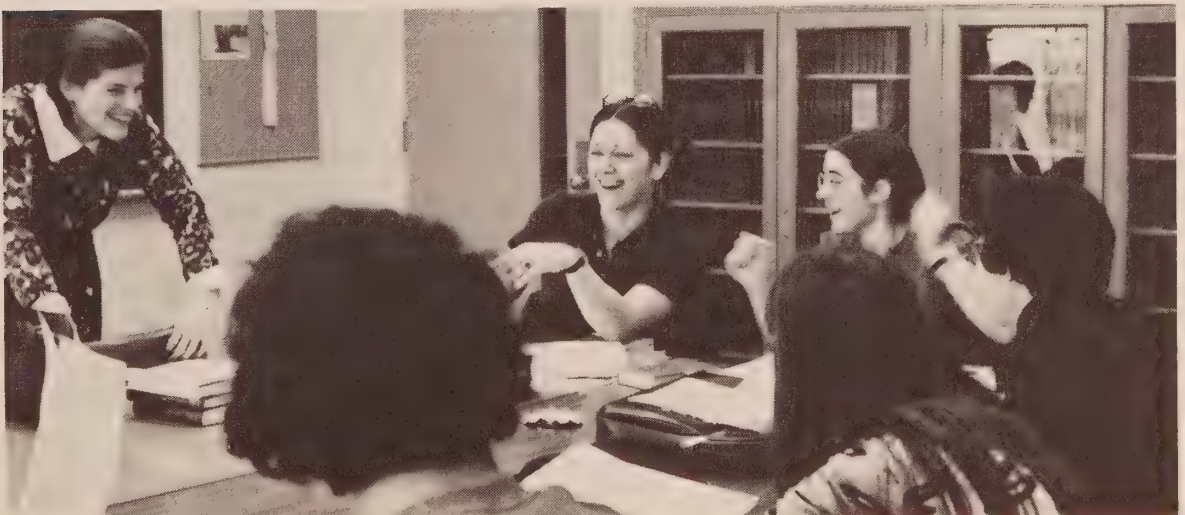
A research essay to be prepared in the senior seminar is required in lieu of the major examination.

1-2. Junior Readings.

Students will read selected classics and examples of contemporary scholarship in American Studies. The aim of the course is to prepare the student to discuss and write critically on interdisciplinary works. May be entered either semester. Open to non-majors with permission of the instructor. Professor Baxter. Biweekly meetings. Th 2:10-4.

3-4. Senior Seminar.

Individual research on diverse aspects of American civilization, in consultation with the instructor, and presentation of results in the form of the senior essay. Professor Baxter. W 2:10-4 and frequent conferences.



Ancient Studies

This program is supervised by the Committee on Ancient Studies:

Professor of Art History and Archaeology

Edith Paroda (Columbia)

Professor of Greek and Latin

William M. Calder III (Columbia)

Professor of Philosophy

Joseph G. Brennan

Associate Professors of Greek and Latin

James A. Coulter (Representative for General Studies)

Lydia Lenaghan (Representative for Barnard College)

Associate Professor of History

William V. Harris¹ (Columbia)

Assistant Professor of Art History

William Childs (Representative for Columbia College)

Assistant Professor of Middle East Languages and Cultures

Irvine D. Marcus (Columbia)

Assistant Professor of Religion

Elaine Pagels

¹Absent on leave, 1974-75.

The major in Ancient Studies is designed to allow the student to explore various aspects of antiquity while concentrating on one. By studying the ancient world in several academic disciplines she will acquire a general knowledge and a context for her own area of specialization.

Each student chooses an adviser whose field is closely related to her own and with whom she will do her senior reading, but the programs of all the students are reviewed in common by the Committee, in order to maintain control and a sense of collective enterprise.

Major requirements: nine courses, including at least four courses in one geographical area or period and at least the first semester of Ancient Studies V3998x, V3999y, ***Directed Research in Ancient Studies***, with presentation of written results. In some cases, a senior seminar in one of the departments may be substituted for this course. An annual list of relevant courses compiled by the Committee is available from the Representative for Barnard College.

Ancient language courses may be used toward the major requirement; however, where a second ancient language is offered, in one of the two a second year sequence must be offered to gain credit for the first year.

Professors

Morton Klass, Abraham Rosman

Associate Professors

Paula G. Rubel (Chairman; 411 G Milbank Hall), Joan Vincent

Assistant Professors

Bette S. Denich, Clive S. Kessler

Other officers of the University offering courses listed below:

Professors

Alexander Alland Jr., Morton H. Fried, Ralph L. Holloway, Robert F. Murphy, Elliott P. Skinner

Associate Professor Myron L. Cohen¹

Assistant Professors

John Attinasi, George C. Bond, Shirley S. Gorenstein, Allen W. Johnson, Richard Keatinge.

Lecturers

David Boyd, Robert Stigler

¹Absent on leave, Spring Term.

Anthropology is the study of the biological and cultural development of the human species, and of the contemporary variety of human societies and their cultures. The student majoring in this field will develop a perspective on humans and their ways that is not bound by her own time and culture, and she will find herself drawing upon the literature of such different disciplines as genetics, archaeology, ethnography, linguistics, and the social sciences. While the study of anthropology contributes to a liberal arts education, the student will also receive adequate preparation for further study in graduate school, or for employment in the growing field of applied social change.

Every major is expected to have a general knowledge of all the fields of anthropology and of their interrelationship. Anthropology V1001, V1002 is required of all majors as a prerequisite to advanced work in the subject. All majors are also required to take Social Organization (V3011). Courses in archaeology, linguistics, physical anthropology and ethnographic areas are strongly recommended for majors. In the junior year, a major will take Anthropology V3041 and 42, and in her senior year Anthropology 51-52, a seminar for independent research.

Several major museums and libraries in New York offer exceptional opportunities for research. Various summer schools offer opportunities for research in archaeology and ethnography, and under certain circumstances such work may be credited toward the Barnard degree. Students interested in cultural anthropology will be encouraged, whenever possible, to conduct actual research in the New York area, or, during their summer vacations, in other localities.

In lieu of a major examination, each student in the required senior seminar (51-52) will write a senior essay.

BASIC COURSES

SV1001x and V1001y. Introduction to the Study of Man.

Man's biological and cultural evolution, as studied by physical anthropologists and archaeologists; introduction to anthropological linguistics. V1001x. Section I. Professor Fried. M W 11-12:15. Section II. Professor Gorenstein. M W 6:10-7:25. Section III. Professor Rosman. Tu Th 9:10-10:25. V1001y. Professor Alland. Tu Th 4:10-5:25. Discussion hours to be arranged.

Anthropology

SV1002x and V1002y. Introduction to Cultural Anthropology.

Comparative and functional analysis of culture; habitat, technology, and economy; social and political relations; ideology — magic, religion, and science; art, music, and literature; life cycles and personality. V1002x. Professor Murphy. M W 1:10-2:25. V1002y. Section I. Professor Fried. M W 11-12:15. Section II. Professor Klass. Tu Th 2:40-3:55. Section III. Professor Rosman. Tu Th 9:10-10:25. Discussion hours to be arranged.

Linguistics SV1101x, V1102y. Introduction to Linguistics.

The nature of language. Characteristics of phonological and grammatical systems and of the lexicon. Evolution of language. Role of language. Role of linguistics in related disciplines. Modern techniques of linguistic analysis. Linguistics V1001x is prerequisite to Linguistics V1102y. Section I. Professors Bever and Jacobson. Tu Th 11-12:15. Section II. Professors Bever and Reddy. Tu Th 7:40-8:55.

INTERMEDIATE COURSES

SV3002x. Political Anthropology.

The development and comparative study of political structure and government in non-western societies. Professor Vincent. Tu Th 2:40-3:55.

[SV3003x. Problems in Developing Countries. Professor Denich. Not given in 1974-75.]

SV3004x. Introduction to Archaeology.

The history, goals, theoretical frameworks, research designs, and techniques and methods for conducting archaeological research. The relationship of archaeology to anthropology, art history, history, and classics is examined. Professor Gorenstein M W 1:10-2:25.

SV3005x. Peoples of Africa.

Survey of African cultures, with intensive analysis of selected peoples. Professor Skinner. M. W. 2:40-3:55.

[SV3006y. Peoples of Southeast Asia. Not given in 1974-75.]

V3007y. Peoples of Europe.

Intensive analysis of selected ethnographic studies reflecting the cultural variation of the peoples of Europe. Professor Denich. Tu Th 4:10-5:25.

[SV3008. Ethnology of North American Indians. Not given in 1974-75.]

[SV3009. People of the Middle East. Not given in 1974-75.]

[SV3010x. Native South America. Professor Johnson. Not given in 1974-75.]

SV3011x. Social Organization.

The institutions and organization of social life, particularly in non-literate societies. Kinship and locality in the structuring of society. Prerequisite: an introductory anthropology course. Professor Kessler. Tu Th 4:10-5:25.

[SV3012y. Economic Anthropology. Not given in 1974-75.]

SV3013x. Village India.

Study of the peoples and problems of the South Asian countryside. Contemporary ethnographies and community studies will be utilized in the examination of socio-economic relationships, religion and culture change. Professor Klass. Tu Th 2:40-3:55.

SV3016x. Peoples of the Pacific.

A comparative analysis of the ethnographic setting of Polynesian, Micronesian, and Melanesian populations. Emphasis on theoretical contributions achieved and current

anthropological problems being considered by researchers in the area. Mr. Boyd. M W F 10.

SV 3018x. The Development of Urbanism: An Archaeological Perspective.

The course will investigate the development and maintenance of prehistoric urban societies, drawing upon examples from both the New and Old Worlds. Attention will be given to the relationships between developmental processes, environmental exploitation, urban-rural interactions, and the internal dynamics and structure of the city itself. Professor Keatinge. M W 2:40-3:55.

SV 3021y. Sex Roles in Cross-Cultural Perspective.

A consideration of cultural expectations about male and female behavior in non-Western and Western societies. Differences in the social, economic, religious, and political behavior of men and women in a variety of cultures will be considered. Beliefs about sex and the sexes as well as the presence or absence of sex antagonisms will be examined. Professor Dwyer. Tu Th 2:40-3:55.

[**SV 3026x. Socio-cultural Dimensions of Poverty.** Professor Bond. Not given in 1974-75.]

SV 3027x. Culture and the Individual.

The development of personality in varying cultural contexts; child-rearing and socialization; the role of personality theories in analyzing social systems and situations of culture change. Prerequisite: an introductory anthropology course or permission of the instructor. Professor Dwyer. M W 1:10-2:25.

SV 3029y. The Archaeology of the New World.

A survey of the prehistoric past of native American cultures from the time of the aboriginal settling of the New World by Asian immigrants to that of European contact. Special emphasis upon the rise of the New World civilizations in Mexico and Peru and the processes leading to their development. Prerequisite: a year of introductory anthropology. Dr. Stigler. M W 11-12:15.

SV 3032x. The Archaeology of the Old World.

A survey of the principal areas of cultural development in Europe, Asia, and Africa from the earliest beginning of human culture to the dawn of the first civilization. Prerequisite: a year of introductory anthropology. Dr. Stigler. M W 11-12:15.

SV 3033x. Sociolinguistics.

Geographical and social dialects; linguistic variation in the speech community; social evaluation of linguistic features; social problems of mutual intelligibility; linguistic change in progress. Professor Attinasi. Tu Th 1:10-2:25.

SV 3034y. Ethnolinguistics.

Language diversity, relativity; world view and grammatical categories; processes and problems of change; language evolution. Covert classificatory systems; ethnotaxonomy; men's and women's speech; baby talk; age grading; taboos and euphemisms; secret languages and linguistic play; nature of speech events; discourse analysis. Professor Attinasi. Tu Th 1:10-2:25.

SV 3036x. Peasant Societies.

An introduction to pre-industrial agrarian social systems. Professor Cohen. M W 1:10-2:25.

[**SV 3037y. Societies in Transition.** Not given in 1974-75.]

SV 3038Y. Ethnic Relations in Changing Societies.

Analysis and comparison of ethnic relations in settings of cultural pluralism, with special reference to developing countries. Professor Vincent. Tu Th 10:35-11:50.

[**SV 3039y. The Asian Experience in the United States.** Not given in 1974-75.]

Anthropology

SV 3042y. The Anthropology of Religion.

Ideological systems of simple or preindustrial cultures. Relations between religion and other aspects of culture. Prerequisite: an introductory anthropology course. Professor Kessler. Tu Th 4:10-5:25.

V3044x. Symbolism.

A review of recent anthropological studies of symbolism, including the work of Edmund Leach, Mary Douglas, Clifford Geertz, Victor Turner and others. Prerequisite: an introductory anthropology course or permission of the instructor. Professor Kessler. M W 11-12:15.

[V3048x. **Laboratory Techniques in Archaeology.** Not given in 1974-75.]

V3050y. Field Archaeology.

Introduction to archaeological techniques and methods of excavation. Approximately seven field sessions, supplemented by classroom work. Students must pay for their transportation and food when on the trips. Prerequisite: permission of the instructor. Professor Keatinge. S 9-12.

SV 3100y. Urban Societies.

Evolution of cities. A cross-cultural view of kinds of urban formations. Examinations within an anthropological context of various aspects of urban life. Instructor to be announced. M W 1:10-2:25.

SV 3121y. Environment and Cultural Behavior.

Discussion of ecological studies in cultural anthropology, with special emphasis on making cultural practices intelligible by relating them to the material world in which they develop or occur. Permission of the instructor required. Mr. Boyd. M W 2:40-3:55.

SV 3200y. Colloquium on Methods of Anthropological Research.

Analysis and application of various methods of anthropological research, including, among others, fieldwork procedures, the cross-cultural method, and approaches to model-building in anthropology. Prerequisite: an introductory anthropology course and permission of the instructor. Professor Rubel. Tu 10-12.

V3201x. Physical Anthropology.

Evolutionary theory, population genetics, race, human paleontology, and primate behavior. Professor Holloway. Tu Th 11-12:15.

[SV3310y. **Culture, Causality and Individual Freedom.** Not given in 1974-75.]

FOR MAJORS ONLY

V3041x. History of Anthropological Theory.

Intellectual developments contributing to the formalization of anthropology as a discipline. The works of Montesquieu, Comte, Maine, Durkheim, and Marx will be considered, along with the theoretical writings of such anthropologists as Tylor, Morgan, Boas, Malinowski, and Radcliffe-Brown. Required of all majors in their junior year. Professor Rubel. Tu Th 10:35-11:50.

42. Junior Colloquium on Current Anthropological Theory.

Intensive analysis of selected contemporary theoretical approaches and issues in anthropology. Required of all majors in their junior year. Prerequisite: Anthropology 41. Section I. Professor Denich. Th 2:10-4. Section II. Professor Kessler. W 10-12.

[V3500y. **Colloquium: Problems in Structuralism.** Professor Murphy. Not given in 1974-75.]

W3600x. Ethnographic Research.

Research in the metropolitan area. Primarily for seniors; all others require permission of the instructor. Professor Denich. Tu Th 4:10-5:25.

V3700y. Colloquium: Anthropological Research Problems in Complex Societies.

Study of the local community and its relationship to regional and national societies. Discussion of plural societies, minority and ethnic groups in a cross-cultural setting. Cases will be selected from Africa, Latin America, Asia, Europe, and North America. Professor Johnson. Tu 2-4.

51-52. Anthropology Senior Seminar.

Discussions and conferences on the researching and writing of the senior essay. Section I. Professor Denich. Section II. Professor Gorenstein. Section III. Professor Klass. Section IV. Professor Rubel. Section V. Professor Rosman. Section VI. Professor Vincent. Section VII. Professor Kessler. Hours to be arranged.

GRADUATE COURSES

Certain graduate courses given in the University are open to qualified majors with the consent of the department and the major adviser. These courses are described in the Bulletin of the Graduate School of Arts and Sciences.



Professor

Barbara Novak (Chairman; 301B Barnard Hall), John Kouwenhoven (English)

Adjunct Professor

Brian O'Doherty

Associate Professor

Dorothea Nyberg

Assistant Professor

Joseph Masheck

Instructor

Jane Rosenthal

Visiting Artists

Milton Resnick, Victoria Barr

Other officers of the University giving instruction in Barnard College:

Professor

George Collins

Assistant Professor

Wayne Dynes

Other officers of the University offering courses listed below:

Professors

James Beck, Richard Brilliant, Howard McP. Davis, Alfred Frazer, Howard Hibbard

Associate Professors

Miyeko Murase, Dustin Rice, Allen Staley

Assistant Professors

Rosemarie Bletter, Louise Bordaz, Cornelius Chang, Alessandra Comini

Associate

Frieda Rosenthal

Art is a unique form of human experience. A study of its history will often provide a surprisingly vivid insight into the intellectual currents, the religious doctrines and practices, and the social institutions of the past. The student will see to what extent the unfolding of art is determined by conditions existing outside it, and by the impetus given it by the great creative personalities. She will in consequence gain a deepened understanding of the art of our own time and an ability, often fully appreciated only after she has left college, to enjoy intelligently the great accumulation of art in museums all over the world.

Courses in the department of Art History are designed to take advantage of the resources of New York, one of the world's great centers of art. A limited number of studio courses are also offered at Barnard; in addition, students may take any course for which they qualify in the Department of Painting and Sculpture, School of the Arts of Columbia University. See page 54 for regulations governing these courses. Studio courses do not count towards the major.

Students who want to major in Art History must take at least nine courses in the department. They should select a full-time member of the department as their adviser, preferably during their sophomore year and not later than the beginning of their junior year. They should plan their academic program in consultation with this adviser. The department strongly suggests that majors take Course 1, 2, and thereafter they must take at least one advanced course in ancient, medieval, renaissance, baroque and modern art,

so as to be able to appreciate the variety of artistic expression in different countries and periods. At least five courses in the major should be Barnard courses. Students may register their major as art history with emphasis on architecture. Address inquiries regarding an architectural emphasis to Professor Nyberg; address inquiries regarding an art history major to Professor Novak.

Majors are required to take at least three seminars, two at Barnard. Seniors in Art History are required to write a senior essay, which may be an expansion of a paper for any seminar. Under special circumstances and with the chairman's permission, a limited number of seniors may elect Art History 99x or y, independent research for the senior essay. Art History 99x or y may not be used to fulfill the seminar requirement, but can be taken in addition to the three required seminars.

Students planning to do graduate work should obtain a reading knowledge of at least two of the foreign languages in which the major contributions to the history of art have been made. (Most graduate schools require a reading knowledge of French and German; the department strongly recommends taking German while at Barnard.)

The Program in the Arts: Those students contemplating a career in studio art should see the announcement on the Program in the Arts, pages 56-58, and should consult with Professor Novak at the earliest possible time.

51, 2. Introduction to the History of Art.

A study of the art historian's method and a historical survey of Western architecture, sculpture, and painting. Emphasis will be given to the interpretation of form and content and the correlation of the visual arts with their respective cultural environments. Either course may be taken separately. Autumn Term: Greek and classical art, medieval art. Spring Term: Renaissance to modern art. Mrs. J. Rosenthal. M W 1:10-2:25.

V3080x. Pre-Columbian Art.

A survey of the pre-Hispanic art of Mesoamerica, Central America, and the Andean region from the earliest times to the Spanish conquest. Mrs. Pasztory. Tu Th 2:40-3:55.

W3056y. Primitive Art.

A survey of traditional tribal art styles, with emphasis on function, iconography, and historical relationships. Mrs. F. Rosenthal. Tu Th 4:10-5:25.

W4075y. Art of Africa

Form and content of the traditional arts of various tribal groups south of the Sahara. Professor Fraser. W 7:10-9.

[**5W4180y. Egyptian Art and Archaeology.** Professor Farkas. Not given in 1974-75.]

[**548. Ancient Near Eastern Art.** Professor Farkas. Not given in 1974-75.]

W3155x. Introduction to the Archaeology of the Near East and the Aegean.

A comparative study of major archaeological sites in the Near East and the Aegean from earliest times through the Bronze Age, selected to illustrate archaeological methods and the reconstruction of ancient cultures. Among the major excavations to be considered are: Jericho, Catal Huyuk, Jarmo, Troy, Ur, Mari, Lerna, Knossos, and Mycenae. Mrs. Bordaz. Time to be announced.

W3150x. Art and Architecture of the Ancient Near East.

The arts of the ancient cultures of Mesopotamia, Iran, Anatolia, Syria, and Palestine from the 4th millennium through the Achaemenid period in the late first millennium B. C. Professor Porada. Time to be announced.

[**W4173x. Anatolia and Syria-Palestine.** Professor Porada. Not given in 1974-75.]

Art History

W4173y. Hittite Archaeology.

A survey of the origins and developments of second millennium cultures in Anatolia and their relationships with the Near East and the Aegean. Mrs. Bordaz. W 2:10-4.

SV3248x. Greek Art and Architecture.

An examination of the principal monuments and themes of Greek art in sculpture, painting, architecture, and city planning from the Mycenaeans to the Roman conquest. Professor Brilliant. Tu Th 2:40-3:55.

[**§46. Myth and Art in Greece.** Professor Childs. Not given in 1974-75.]

SV3250y. Roman Art and Architecture.

The architecture, sculpture, and painting of ancient Rome from the second century B.C. to the end of the Roman Empire in the West. Professor Frazer. Tu Th 2:40-3:55.

§51, 52. Medieval Art.

Autumn Term: Christian art from its beginnings in the late antique world in Mediterranean countries through the early Christian and Byzantine periods, with emphasis on mosaics and illuminated manuscripts, followed by the Celtic and Carolingian styles of western Europe. Spring Term: Romanesque sculpture and architecture of Italy and France, and Gothic architecture, sculpture, and painting, ending with the introduction of the Italian Renaissance into France. Mrs. J. Rosenthal. Tu Th 1:10-2:25. Visits to the Metropolitan Museum of Art, the Pierpont Morgan Library, and the Cloisters.

[**W4375x. Gothic Art in the Thirteenth Century.** Not given in 1974-75.]

[**§53. Christian Iconography.** Not given in 1974-75.]

W4321x. Early Christian Iconography.

The emergence and standardization of Christian subject matter in the Mediterranean world up to the end of the 6th century, with special emphasis on the theological background and on sources in pagan art. Professor Dynes. W 4:10-6.

§56. Imagery and Tradition in Western Art.

The innovation and diffusion of some leading themes in Western art from ancient Greece to the present, and their relation to other manifestations of culture. Among the topics are epic and heroic cycles, political propaganda, icons and iconoclasm, Neoplatonic and emblematic imagery, nature mysticism, the found object, and the artistic process as subject. Professor Dynes. M W 11-12:15.

[**W4352x. Romanesque Architecture.** Not given in 1974-75.]

§61. European Architecture from the Renaissance through the Rococo Style.

The development of Renaissance, Baroque, and Rococo architecture in Italy, France, Germany, and England from the fifteenth to mid-eighteenth century. Among the architects to be studied will be Brunelleschi, Bramante, Michelangelo, Delorme, Cortona, Borromini, Francois Mansart, Hardouin-Mansart, Inigo Jones, Wren, Neumann, and Boffrand. Professor Nyberg. Tu Th 4:10-5:25.

[**SV3420y. Italian Sculpture during the Renaissance.** Professor Beck. Not given in 1974-75.]

[**§C3633x. Italian Renaissance Painting.** Professor Davis. Not given in 1974-75.]

W3400y. Italian Renaissance Painting.

The work of the major masters from about 1420 to 1530, with special emphasis on Masaccio, Piero della Francesca, Mantegna, Raphael, Leonardo, Michelangelo, Bellini, Giorgione, and Titian. Professor Beck. Tu Th 2:40-3:55.

[**SW4436y. Italian Painting of the Sixteenth Century.** Professor Rosand. Not given in 1974-75.]

[**\$60. Sixteenth Century Painting in Northern Europe.** Not given in 1974-75.]

W4451y. High Renaissance Art and Architecture.

Style and relationships among the arts, c. 1500-1527. Emphasis on Leonardo, Michelangelo, Fra Bartolomeo, Raphael, Bramante, Sansovino. Professor Lewine. Tu Th 11-12:15.

SV3688y. Northern European Painting.

Renaissance humanism and realism, the tradition of satiric imagery and the emergence of the Baroque, particularly in Flanders and Holland, with emphasis on Jan van Eyck, van der Weyden, Bosch, Bruegel, and Rembrandt. Professor Davis. Tu Th 11-12:15.

[**\$75. European Painting Since the Renaissance.** Professor Masheck. Not given in 1974-75.]

76x. European Painting since the Renaissance.

Painting from the late eighteenth century to 1900. Neoclassicism, Romanticism, Realism, Impressionism, and Post-Impressionism. Emphasis will be on the developments in France, from David to Cezanne and Seurat, but with attention to Goya, Constable, and Turner as well. Professor Masheck. Tu Th 11-12:15.

SV3500x. Seventeenth Century Art.

Painting and sculpture in Western Europe. The Baroque style in relation to its cultural background, with emphasis on Bernini, Borromini, Rubens, Velasquez, Rembrandt, and Poussin. Professor Hibbard. M W 1:10-2:25.

[**W4518y. Baroque Architecture in Italy.** Professor Hibbard. Not given in 1974-75.]

[**\$57, 58. Baroque Art in Northern Europe.** Not given in 1974-75.]

W4571y. European Painting in the Eighteenth Century.

From Watteau and Tiepolo to David and Goya. Emphasis on new styles and subjects appearing between 1750 and 1800 and their relation to contemporary cultural and social background. Professor Staley. Tu Th 2:40-3:55.

64. European and American Sculpture, Baroque to Modern.

From the Baroque masters of the 17th century to contemporary directions of 20th century European and American sculpture. Special emphasis will be given to Bernini, Rodin, Picasso, Nevelson, and David Smith. Professor Nyberg. Tu Th 4:10-5:25.

[**\$69. French Architecture 1500-1800.** Professor Nyberg. Not given in 1974-75.]

[**\$70. European and American Architecture from the Eighteenth Century to the Present.**

Professor Nyberg. Not given in 1974-75.]

\$83. Art and Architecture of Great Britain and Ireland.

Painting, sculpture, and architecture in the British Isles from the Elizabethan age to modern times. Some consideration of relations with the Continent, and the effects of nationalism and colonialism. Emphasis on such major figures as Jones, Wren, Burlington, Hogarth, Adam, Blake, Constable, Ruskin, and Morris, and on British contributions to modernism in painting and sculpture. Professor Masheck. Tu Th 2:40-3:55.

\$77. American Art from Colonial Times to the Armory Show.

The development of the arts in America from Colonial times to the Armory Show of 1913 with special emphasis on Realism and Romanticism in the nineteenth century. Open to all except freshmen. Professor Novak. M W 2:40-3:55.

\$79. The Arts in Spain from the Golden Age to the Present.

A discussion of the major figures, monuments, movements, and styles in Spanish art and architecture from c. 1500 to the present. Emphasis on the distinctive Spanish nature of the arts and their relation to other aspects of the culture and history of the Peninsula. Professor Collins. M W 2:40-3:55.

Art History

[§62. **Photography and the Arts.** Not given in 1974-75.]

[§C3681. **American Art in the Twentieth Century.** Not given in 1974-75.]

§C3833x. Modern Architecture.

Tendencies in twentieth-century architecture and city planning as related to other cultural developments. Origins of the modern movement in the stylistic and technological developments of the nineteenth century. Major contemporary contributions. Limited to 100 students. Sign up in 815 Schermerhorn. Professor Santomaso. M W 11-12:15.

V3662y. Cities and Planning.

Characteristic forms of cities since ancient times. Analysis of the purpose and meaning of forms of preplanning that have been suggested, especially since the Renaissance. Limited to 60 students. Sign up in 815 Schermerhorn. Professor Collins. M W 11-12:15.

Art History – English §84. The Vernacular in the American Arts of Design

The conflict between the "cultivated" and "vernacular" styles. The development of an American aesthetic in technology, architecture, fine arts, literature, and other arts. Professor Kouwenhoven. W 2:40-4:55.

§78. Introduction to Painting and Sculpture of the Twentieth Century.

A summary of the principal stylistic developments of the period in question through presentation and discussion of selected artists and their work. Emphasis will be placed on the movements of Fauvism and Expressionism, Cubism, Dada, and Surrealism, as well as on post-war developments in Europe and America. Professor Masheck. M W 2:40-3:55.

W3105x. Contemporary Sculpture.

Emphasis on technical traditions in stone, wood, metal, and other media. Field trips to a foundry, to studios, and to museums. Professor Rice. Time to be announced.

[94. **Art of India.** Not given in 1974-75.]

§V3201x. Arts of China.

A survey of Chinese art from the Neolithic to the last dynastic period of Ch'ing, with emphasis on bronzes, Buddhist art, and great landscape painting of the Sung and later periods. Attention also to the arts of Central Asia and India as they affect the arts of China. Professor Chang. Tu Th 4:10-5:25.

§V3203y. Arts of Japan.

A survey of the development of Buddhist art and architecture in Japan as they were introduced from China, including the arts of later periods, with special emphasis on the formation of indigenous art forms such as narrative scroll-painting, decorative screens, and wood-block prints. Professor Murase. Tu Th 4:10-5:25.

SEMINARS

[C3936x. **Gothic Sculpture in Europe.** Mr. Bartholomew. Not given in 1974-75.]

[C3933y. **Medieval Art at the Cloisters.** Mr. Bartholomew. Not given in 1974-75.]

[80. **Landscape in American Art and Photography.** Not given in 1974-75.]

[C3974x. **Seminar in Prints and Drawings.** Professor Rosand. Not given in 1974-75.]

[C3979y. **Seminar in Romanticism.** Professor Staley. Not given in 1974-75.]

C3901x. Colloquium on Munich and Vienna, 1880-1918.

An exploration of art and architecture at the turn of the century in Munich and Vienna,

with emphasis on parallel developments in philosophy, literature, music, and the dance. Student reports may focus on individual artists or on pertinent intellectual trends. Prerequisites: junior standing and permission of the instructor. Professor Comini. W 4:10-6.

C3977y. The Portrait in Modern Art.

The shift from facade to psyche in the portraiture of recent European and American art movements. Cultural and biographical content; body imagery; existential or environmental; allegory as confession; the phenomenon of the self; influences of literature, photography, and the dance. Prerequisites: junior standing and permission of the instructor. Professor Comini. Th 4:10-6.

C3982y. Dada and Surrealism.

Intensive examination of the movements in Europe and America. Oral and written reports as well as the creation of works of art under the instructor's guidance. Prerequisites: junior standing and permission of the instructor. Professor Rice. M 2:10-4.

[C3955x. Seminar in German Expressionist Film and Art. Mrs. Bletter. Not given in 1974-75.]

C3975x. Seminar on the Bauhaus.

An exploration of the Bauhaus' total approach to art, which included painting, sculpture, architecture, crafts, photography, graphic and industrial design, and theater arts. Among the major figures to be studied are Paul Klee, Wassily Kandinsky, Lyonel Feininger, Walter Gropius, and Ludwig Mies van der Rohe. Permission of the instructor required. Mrs. Bletter. Th 2-4.

71. Problems of Style.

After a common consideration of the nature of style, and of art historical periodization, students will present reports applying these notions to materials from the history of design. Topics include architectural ornament, the porcelain factories of the eighteenth century, iron bridges, and early industrial design. Attention to quality of workmanship and other aesthetic judgments and to the place of such works in art history. Professor Masheck. W 10-11:50.

81, 82. The Literature of Art.

Study of the literary sources used in art historical research; artists' letters, journals and treatises (by Leonardo, Rubens, Delacroix, Van Gogh), contemporary biographies (Vasari and Van Mander), the ideas and writings of leading critics and scholars (Fromentin, Baudelaire, Ruskin, the Brothers Goncourt, Huizinga, Burckhardt, Wolfflin, Worringer, Berenson, Fry, Panofsky, Gombrich, Read, Malraux). The Autumn Term will be devoted largely to writings of the artists and their contemporary critics. The Spring Term will be devoted to theories of modern criticism and scholarship. Intended for junior majors but also open to senior majors. Professor Novak. M 10-11:50.

[90. The Altarpiece: Special Problems in Devotional Imagery. Not given in 1974-75.]

86. Seminar in Art Criticism.

A workshop in writing criticism. Short weekly assignments on such matters as Language, Experience, Narrative, and the Object. A close examination of Process. Students will write art criticism based on their gallery visits and will refer to current and previous criticism. Professor O'Doherty. F 10-11:50.

[93. Seminar in Rogier van der Weyden. Not given in 1974-75.]

[C3976y. The Image of the Indian and the Black Man in American Art. Not given in 1974-75.]

Art History

C3666y. Architecture since 1945.

Analysis of recent architectural theory and design based upon primary source materials. Topics include the work of Frank Lloyd Wright, LeCorbusier, Aalto, Kahn, Venturi, Moore, Team 10, and such visionaries as Buckminster Fuller, Archigram, the Metabolists, Soleri, and others. Readings, class discussions, and written reports. Prerequisite: Art History C3833 or comparable course; junior standing and permission of the instructor. Mrs. Bletter. Tu 2:10-4.

[96. Seminar in European Rococo Art and Architecture. Professor Nyberg. Not given in 1974-75.]

[C3663x. Seminar on Modern Architecture of the '20's and '30's in Europe and America. Mr. Santomasso. Not given in 1974-75.]

98. Social and Political Functions of Architecture.

Topics include religious architecture, funeral monuments, the architecture of kingship and of the French and American Republics. Professor Nyberg. Tu Th 2:40-3:55.

99x, 99y. Independent Research for Seniors.

Independent research, primarily for the senior essay, under a chosen faculty adviser and with the chairman's permission. Hours to be arranged.

STUDIO COURSES

A maximum of four courses of studio work may be credited. Columbia courses or sections which offer only 2 points do not count for Barnard credit. Students taking more than two courses of studio work are required to validate the additional credit courses in art history. Studio courses, 3, 4, 5, 6, and 7, 8, are given at Barnard and no special permission is needed to take those courses. The remainder of studio courses are given at the School of the Arts, in Dodge Hall, and students may register for these only with written permission of the departmental representative (Professor Andre Racz). Classes are limited to 18 students. Students who wish to enter the courses listed below are required to apply for space during the preregistration period prior to each term. (For dates, check with School of the Arts.) For further details see the Bulletin of the School of the Arts. Credit for the following: one course each term.

3, 4. Studio Painting.

Studio course in painting with acrylic and oil. Supplementary instruction in drawing and the use of color. Emphasis is on individual development. Miss Barr. Tu Th 2-5.

5, 6, 7, 8. Advanced Drawing and Painting.

A course designed to teach students basic skills by setting specific tasks to be executed both in drawing and in painting. Occasional use of life models. Limited to fifteen students. Mr. Resnick. F 1-5.

Drawing R1001x, R1002y; R1003x, R1004y. Drawing Workshop.

Model fee: \$15 per term. Section I. Professor Racz. M W 1:10-4. Section II. Professor Lund. Tu Th 1:10-4. Section III. Mr. Stewart. Tu Th 7:10-10. Section IV. (Spring Term only). Professor Lund. W 6:10-10.

Painting R1011x, R1012y; R1013x, R1014y. Painting Workshop.

Model Fee: \$15 per term. Section I. Miss Bartlett. M W 1:10-4. Section II. Professor Lund. Tu Th 9:10-12. Section III. Professor Goldin. Tu Th 1:10-4. Section IV. Mr. Stefanelli. Tu Th 7:10-10.

Printmaking R1041x-R1042y. Woodcut and Wood Engraving.

Laboratory Fee: \$25 per term. Mr. Uchima. M W 7:10-10.

Printmaking R1043x-R1044y. Etching and Engraving.

Laboratory Fee: \$25 per term. Professor Harrison. Tu Th 1:10-4.

Printmaking R1045x-R1046y. Lithography and Drawing.

Laboratory Fee: \$25 per term. Mr. Blackburn. M W 1:10-4.

Sculpture R1023x-R1024y. Sculpture Workshop.

Model Fee: \$20 per term. Miss Linder. Tu Th 9-11:50.

Sculpture R1025x-R1026y. Carving and Design.

Laboratory Fee: \$25 per term. Mr. Niizuma. F 1:10-5.

Sculpture R1027x-R1028y. Welding and Design.

Laboratory Fee: \$25 per term. Mr. Swarz. Section I M W 9-11:50. Section II M W 1:10-4.

GRADUATE COURSES

Certain graduate courses given in the University are open to qualified majors with the consent of the chairman of the department and the major adviser. These courses are described in the Bulletin of the Graduate School of Arts and Sciences.



Program in the Arts

This program is supervised by the Committee on the Program in the Arts:

Professor of English

Barry Ulanov, Chairman

Professor of Music

Hubert Doris

Professor of Art History

Barbara Novak

Associate Professor of English (Theater)

Kenneth Janes

Associate Professor of Physical Education (Dance)

Jeanette Roosevelt, Coordinator

The Program in the Arts is offered for a limited number of students who are gifted in one of the arts and who wish both to continue the development of their skills and to obtain a liberal arts education. It is designed as an interdisciplinary major in the arts with concentration in one particular art. The program offers a general introductory course, a junior colloquium, and a senior seminar, as well as directed work in a field of concentration such as studio work in the visual arts, music as a performing art, the dance in all its aspects, theater as a performing art or as a discipline of literary scholarship, and writing in all its branches.

Students are normally admitted to the Program in the Arts in their sophomore year, but freshmen who look forward to entering this major are strongly advised to take the introductory course in their freshman year and to seek the counsel of members of the Committee in shaping their program as early as possible. Admission is based upon application to be made before March 1 of the sophomore year. Each applicant will be asked to provide supporting evidence of her individual skill. There are broad general requirements and special ones in each of the disciplines, but each student's program will be given shape with the utmost flexibility possible.

Courses offered under the sponsorship of the Committee, required of all students majoring in the Program in the Arts, are described in the section below. Requirements for the various concentrations within the Program are outlined following. A student should consult with the faculty member on the Committee who is responsible for the area in which her interest lies.

1-2. Introduction to the Arts.

An interdisciplinary presentation, with special emphasis upon theories of style and performance. The interrelationship of the arts, their separate and common critical vocabularies, their borrowings from each other, their defining differences. The course stresses the phenomenon of process in the arts, observed through (1) the consideration of style in the various arts, (2) the study of a crucial period in the history of the arts, and (3) the consideration of major figures in the period, whose innovations in style or inventions in technique led to new forms of expression. Subject for 1974-75: The relation of the arts in the nineteenth century. Autumn Term: Professors Ulanov, Doris, Novak, and Roosevelt. Spring Term: Professors Ulanov, Janes, Roosevelt, and Mr. Sorell. Tu Th 10:35-11:50.

52. Junior Colloquium.

A close study of critical and scholarly works in the history and traditions of the arts, selected to illuminate a particular theme each year. The aim of the colloquium is to develop skills in writing and discussion, and to equip students to deal with the special problems that accompany any examination of the arts on an interdisciplinary basis.

Theme for 1974-75: The multiple meanings of "form" in the arts. Professor Carpenter and staff. Th 4:10-6.

91. Senior Seminar.

Contemporary issues in the arts, with special reports and projects leading to a thesis or a performance. Participating students are encouraged to work in groups, whenever their interests coincide or the logic of performance suggests such collaboration. Theme for 1974-75: The present age — modern or post-modern? Professors Roosevelt and Ulanov and guests. Tu 4:10-6.

Courses required for the Dance concentration:

Dance 61-62.	Dance Workshop
Dance 63.	Form in Dance Composition
Dance 64.	Content in Dance Composition
Dance 65, 66.	History of Dance
Dance 74.	Seminar on Contemporary Dance Forms

Courses required for the Music concentration:

Any two of the following:

Music V3124y.	History II.
Music V3125x.	History III.
Music V3126y.	History IV.

Plus the following courses if the student is not exempted from them upon entrance into the Program:

Music V2100x-V2101y.	Theory I and II.
Music V2300x-V2301y.	Theory III and IV.

Courses required for the Theater concentration:

English 30x. Introduction to the Theater (may be waived upon evidence of sufficient theater background).

English 33,34.	Play Production.
English 31 or 32.	The Contemporary Theater.
English 35 or 36.	Actor's and Director's Interpretation of Dramatic Literature.
Dance Technique.	One semester. (Dance composition may be substituted upon evidence of adequate prior training.)

Three courses in dramatic literature drawn from the following:

English 63 or 64.	Shakespeare.
English 86.	Drama from Ibsen to the Present.
French 34x.	The French Theater of the Seventeenth Century.
Class. Lit. V3123x.	Greek Drama and its Influences.
Greek V3305x.	Tragedy.
German 25.	Great German Dramatists and Theaters of the Nineteenth Century.
German 26.	The Modern German Theater.
Russian V1229x.	Russian Drama and Theater.
Spanish 22.	The Spanish Drama.

Courses required for the Visual Arts concentration:

Art History 1, 2.	Introduction to the History of Art.
Art History 78.	Introduction to Painting and Sculpture of the Twentieth Century.
Art History 86.	Seminar in Art Criticism.
A minimum of four studio courses, to be selected from offerings listed in the Barnard catalogue.	

Courses required for the Writing concentration:

Four courses selected from the following:

- | | |
|-----------------|--|
| English 3, 4. | Structure and Style. |
| English 6. | Advanced Composition. |
| English 7, 8. | Experiments in Writing. |
| English 11, 12. | Story Writing. |
| English 13, 14. | Dramatic Writing. |
| English 93. | Literary Criticism: Analysis and Evaluation. |

Plus two advanced courses from any of the college departments of language and literature.



Professors

William A. Corpe, Patricia L. Dudley, Donald D. Ritchie (Chairman; 1205 Altschul Hall)

Associate Professor

Frederick E. Warburton

Assistant Professor

Maya D. Menon

Laboratory Director

Eleanor L. Noback

Other officers of the University offering courses listed below:

Professors

Sherman Beychok, Walter J. Bock, Charles R. Cantor, Howard Levene, Cyrus Levinthal,¹ Frank G. Lier, Goeffrey L. Zubay

Associate Professors

Eric Holtzman,² Alberto L. Mancinelli

Assistant Professors

F. Carter Bancroft, Lawrence A. Chasin, Barbara Filner, Jonathan Greer, Eduardo Macagno, Deborah B. Mowshowitz, Ronald R. Sederoff, James A. Wechsler.

Lecturers

Gail Arnold, Mollie N. Pflumm, Yum Keung Yip

¹ Absent on leave, Autumn Term.

² Absent on leave, Spring Term.

The major program is designed to serve a variety of needs. Some students interested in general education major in biology because they desire specific knowledge of living organisms. Other students specialize in biology in anticipation of graduate work in this field, or in preparation for medical or dental school. Still others plan a career in government, educational or private research organizations, or they may wish to teach at the elementary or intermediate school level.

The sequence of courses to be followed depends on the ultimate aims of the student and is planned in consultation with members of the department. Planning of the course sequence in biology and related fields is necessary to provide a balanced program and to assure that prerequisites for advanced courses are completed in time.

Course 1-2 should be elected by those students who had a standard biology course in high school, as well as by those who have had no previous training in biology. Some courses taken outside the department may be counted toward a biology major: Anthropology V3201x, Chemistry C3072y, and Psychology 17. In fulfilling the major requirement, students must include at least five terms of laboratory work in biology.

If given special permission, qualified students may take courses offered in the graduate school. They should consult the Bulletin of the Graduate School of Arts and Sciences and their major advisers.

Three or four chemistry courses, chosen in consultation with an adviser, fulfill the minimum requirements in chemistry for graduate work in biology and for entrance into medical school and this amount is generally regarded as the minimum for biology majors as well. Students interested in ecology or evolution should take Geology V1021x and V1022y. A year of general physics should be taken by majors who plan on graduate work or a career in medicine. Graduate work in biology requires a knowledge of German and French (or some other modern language). College mathematics, including calculus, is strongly recommended.

The Undergraduate Record Examination is given as the major examination, unless a student chooses to take the Graduate Record Examination instead. Students are encouraged to do summer work in biological laboratories or field stations. Assistance toward such work may be awarded to qualified students through the Edna Henry Bennett Memorial Scholarship Fund or the Herbert Maule Richards Fund.

Research projects may be selected by students desiring to do individual work. They are usually related to current faculty research and may lead to professional publication. Only one term of such "special topics" can be counted toward the biology major, although more may be used as general electives. Greenhouse space and laboratory equipment are made available for such projects.

1-2. General Biology.

The development of biological knowledge, with emphasis on unsolved problems and the nature of scientific evidence; energy relations of living things, cellular activities, inheritance, development and differentiation, evolution, animal physiology, ecology, and social implications. Professor Ritchie and staff. Lec. M W F 9. Lab. (3 hours) M 1:10-4; Tu 9-11:50; 2:10-5; W 1:10-4; Th 9-11:50; 2:10-5; F 1:10-4.

C1007x. Introduction to Modern Biology.

Professors Bancroft and Mowshowitz. Tu Th 9, and F 12.

3. The Biology of Plants.

Evolutionary, morphological, physiological, and ecological aspects of plants, with some attention to their historical, esthetic, and economic importance. Prerequisites: Biology 1-2 or equivalent and permission of the instructor. Professor Ritchie. Lec. Tu Th 10. Lab. W 1:10-5.

4. Natural History of the New York Area.

Field observations of plants, fungi, birds, reptiles, amphibians, lower invertebrates and arthropods. Methods of identification, collection, preservation. Visits to a variety of ecosystems, both semi-wild and altered by man. Written permission of the instructor required. Professors Ritchie and Warburton. Field trips, laboratory, and discussions. Hours to be arranged. One course credit, part in Autumn and part in Spring Term.

5. Introduction to Genetics, B.

Mendelian and quantitative genetics of plants, animals, and man: segregation, recombination, measurement of linkage, and the genetics of continuous variation. Cytogenetics. Developmental genetics. Population genetics and evolution. Human genetics will be emphasized where it exemplifies general principles. Prerequisites: a course in introductory biology; calculus or statistics, or permission of the instructor. Professor Warburton. Lec. Tu Th 11. 1 hour recitation and demonstration.

6. Evolution.

The modern theory of evolution; the genetic and ecological mechanisms which adapt organisms to their environments and increase the diversity of species. Prerequisite: Biology 1-2 or equivalent. Professor Warburton. Lec. M W F 9. Laboratory-conferences (4 hours) to be arranged.

7. Invertebrate Zoology.

The biology of invertebrate animals: Comparative fine and gross structure, development, physiology and autecology. Major emphasis on marine invertebrates. Laboratory-demonstration includes a survey of major groups and an individual project on the ultrastructure, physiology, or ecology of an invertebrate animal. Prerequisites: a year of college-level biology and permission of the instructor. A course in cell biology is recommended. Professor Dudley. Lec. Tu Th 11-12:15. Lab/demonstration (4 hours) W 1:10-5 or Th 2:10-6.

8. Physiological Ecology.

The interactions of invertebrate and vertebrate animals with their physiochemical environment. Comparative physiology of responses to varying environmental stimuli; the concept of the niche; dynamics of population structure and oscillations; competition, cooperation and other interspecies interactions; ecological energetics. Prerequisites: a year of college-level biology and permission of the instructor. A course in general chemistry is recommended. Professor Dudley. M W F 1:10.

10. Microbiology.

General and applied aspects of microbiology. The importance of microbes in aquatic, terrestrial, and human environments. Prerequisites: a year of college biology, general chemistry, and permission of the instructor. Professor Corpe. Lec. M W 2:10. Lab. M W 3:10-5.

12. Cytology.

The biology of cells: composition, development, and activities of cell walls, membranes, mitochondria, plastids, and chromosomes. Laboratory includes practice in fixation, sectioning, homogenization, smears, photomicrography, and specialized types of microscopy, including electron microscopy. Prerequisite: a year of biology with laboratory. Permission of the instructor required. Professor Ritchie. Lec. Tu Th 10. Lab. (4 hours) individually arranged.

16x. Physiology of Multicellular Organisms.

An interpretation of vital phenomena on the organ level. Topics to be discussed include the major body systems and their functional relationships. Prerequisites: one course each in biology, physics, organic chemistry and written permission of the instructor. Professor Menon. Lec. M W 1:10-2. Conf. F 1:10-2. Lab. 4 hours to be arranged.

22. General and Comparative Endocrinology.

Chemical integration by hormones and related aspects. Coordination systems of invertebrates and vertebrates from a comparative point of view. Mechanisms of hormone action, ultrastructure of endocrine glands, neurosecretory cells, neuroendocrine relationships and bioassay methods. Prerequisites: one course each in biology, physics, organic chemistry, and one term of physiology and written permission of the instructor. Professor Menon. Lec. M W 1:10. Conf. F 1:10. Lab. 4 hours to be arranged.

W3002y. Structure and Function of Animals.

Professor Bock. Lec. M W F 9. Lab. (4 hours). M 1:10-5; 6:10-10; Tu 1:10-5; W 1:10-5; Th 1:10-5; F 1:10-5.

C3014y. Topics in Plant Biology.

Professor Mancinelli. Tu Th 2:40-3:55.

W3022x. Developmental Biology.

Instructor to be announced. Tu Th 10 and W 12.

C3032y. Introduction to Genetics, A.

Professor Sederoff. M W F 1:10.

C3036y. Project Laboratory in Molecular Genetics. (Formerly C1008).

Professor Wechsler. Lab. 8 to 12 hours to be arranged.

W3040x. Laboratory in Cell and Developmental Biology.

Miss Arnold, Professor Holtzman, and Staff. Lec. Tu 12:30-1:20. Lab. Tu 2:10-6; W 4:10-8; Th 1:10-5. Additional hours to be arranged.

W3041x. Cell Biology.

Professor Holtzman. Tu Th 2:40-3:55

Biological Sciences

C3044y. Project Laboratory in Cell Culture.

Professor Chasin. Lab. 8-12 hours to be arranged.

Biology-Geology W3092y. Urban Ecology.

Professors Broecker, Levinthal, and Simpson. Tu Th 1:10-2:25.

C3094x. The Biosphere.

Professor Mancinelli. Tu 2:40-3:55.

W3241x. Structure and Interactions of Plant and Animal Communities.

Professor Lieber. Tu Th 3:10-4:25.

Biology-Chemistry C3501x. Biochemistry I.

Professor Beychok. M W F 10. Recit: one hour to be arranged.

99x, 99y. Problems in Biology.

Independent work will be planned to suit the needs of the student after consultation with the instructors. Staff. Hours and credit by arrangement.

G4061x. Biology of Microorganisms.

Morphology and chemical, physical, and antigenic structure of microbial cells; growth, general physiology, genetics, and mechanisms of metabolic control; aspects of pathogenicity and immunity to disease. Prerequisites: one year college biology, one course in biochemistry, and permission of the instructor. Professor Corpe. Tu Th 2:10.

G4062y. Microbial Ecology.

Introduction to the basic principles of microbial ecology. Behavior, activities, and interrelationships of microorganisms in natural ecosystems, with emphasis on their structural, physiological, and biochemical functions. Laboratories are concerned with procedures used for study of microorganisms in natural environments. Individual projects. Prerequisites: Biology G4061 or 10 and a year of organic chemistry or their equivalents, and permission of the instructor. Professor Corpe. Lec. Tu Th 2:10. Lab. hours to be arranged.



Associate Professors

Oakley Crawford, Bernice G. Segal (Chairman; 605 Altschul)

Assistant Professors

Marie D. Francia, Barry M. Jacobson

Lecturer

Grace W. King

Assistants

Barbara Goodstein, Olympia Jebejian, Maria Zecca, Carol Zitrin

Chemistry majors seek to understand the nature of substances and their transformations. Upon graduation, some chemistry majors obtain research positions in chemical industry and medical laboratories. Others become technical writers or editors or science librarians. Many continue with graduate work in chemistry or related sciences or enter medical and other professional schools.

A student who is interested in chemistry should consult a representative of the department for advice in planning her program. In the first year she should take Courses 1 or 11 and 30 and start or continue the study of calculus. It is then possible for her to fulfill the basic requirements for the major in three years and to take advanced courses in the senior year. Students who have taken an Advanced Placement Course in secondary school may be given advanced placement and credit if they obtain a score of 4 or 5 on the examination and present evidence of satisfactory laboratory experience. A list of major requirements, several possible course sequences, and information about the major examination may be obtained from members of the department. Majors who complete a specific program receive an accrediting certificate from the American Chemical Society.

Students may also pursue a major in Biochemistry which supplements the basic courses in chemistry with courses in biology and two of the university courses in biochemistry. A list of major requirements in biochemistry may be obtained from members of the department.

The laboratories of the department are modern and well equipped both for course work and for independent projects. Experience with modern instruments begins in the first-year course. Students may undertake independent projects under the guidance of members of the department. This has been done recently during both the academic year and the summer, and some of the work has been published in chemical journals. Short projects may also be undertaken in several of the courses of the first three years.

Variable amounts of laboratory work are possible in several courses, as noted in the course listings. One four-hour laboratory per week counts as a laboratory unit; two such units count as one course credit. Chemistry majors take at least four laboratory units distributed between Courses 38, 61 and 68.

1. General Chemistry IA.

The particulate nature of matter in various states. Chemical transformations of matter, especially of ionic substances. Chemical kinetics, energetics, and equilibrium. Laboratory experience with both qualitative and quantitative techniques. Professor Segal Dr. King, and assistants. Lec. Tu Th 9:10-10:25. Recitation and laboratory, one afternoon: M, Tu, W, Th, or F 1:10-5.

2. General Chemistry II.

Atomic and molecular structure. The chemistry of selected elements with particular attention to carbon. Biochemical reactions. Primarily for majors in fields other than science. Prerequisite: Course 1 or permission of the instructor. Professor Crawford, Dr. King, and assistants. Lec. Tu Th 9:10-10:25. Recitation and laboratory, one afternoon: M or Tu 1:10-5.

[11. General Chemistry IB. Not given in 1974-75.]

30. Organic Chemistry I.

Atomic and molecular structure. An introduction to aliphatic and aromatic chemistry with emphasis on modern theories. Laboratory work stresses acquisition of basic techniques. Prerequisite: Course 1. Professor Jacobson and assistants. Lec. Tu Th 9:10-10:25. Laboratory, one afternoon: M, Tu, W, or Th 1:10-5.

31. Organic Chemistry II.

More advanced aspects of organic chemistry and an introduction to biological macromolecules. Required for biology majors and premedical students. Prerequisite: Course 30. Professor Jacobson. M W F 10.

32. Intermediate General Chemistry.

Selected aspects of general chemistry, primarily for premedical students without the background for Chemistry 36 or V 3059x. Thermochemistry, chemical equilibrium, complex ions and coordination compounds, and nuclear chemistry with applications to analytical chemistry and biochemistry. Optional parallel laboratory work: one afternoon under Chemistry 38. Prerequisite: Organic Chemistry II. Professor Francia. M W F 10.

33. Modern Techniques of Organic Chemistry Laboratory.

An introduction to qualitative and quantitative organic analysis and to advanced techniques, including instrumental and chromatographic methods, with a library problem and a short project. Majors must take this course, but it is not required by all medical schools. Prerequisite: Course 30. Professor Jacobson and assistant. Lec. Th 1:10. Laboratory, two afternoons: Tu Th 1:10-5.

36. Chemical Dynamics.

An introduction to chemical kinetics, the laws of thermodynamics, and a study of ionic solutions and crystals. Required of chemistry majors and suitable also for premedical and biological science students. Prerequisites: Course 30, Calculus I and II, and preceding or parallel, Physics V1103-V1104 and Calculus III. Recommended parallel: Course 38. Professor Segal. Lec. M W F 9. Problem section Tu 12.

38. Quantitative and Instrumental Techniques Laboratory.

Quantitative techniques in volumetric analysis, radiochemistry, spectrophotometry, and pH measurement. Biochemical applications are included and some experience with computer programming is provided. Required of chemistry majors and suitable also for premedical and biological science students. Prerequisite: Course V3059x or corequisite: Course 32 or 36. Professor Francia. Lec. One hour to be arranged. Laboratory, one or two afternoons: Tu Th 1:10-5.

V3059x. Introductory Physical Chemistry I.

Thermodynamics, the physical chemistry of solutions, chemical equilibria including acid-base equilibria, electrochemistry. Intended for majors in biochemistry and biology and premedical students. Prerequisites: Organic Chemistry II, Calculus I and II, and Physics V1103-V1104, or the equivalents. Recommended laboratory: Course 38. Professor Francia. M W F 11.

V3060y. Introductory Physical Chemistry II.

Kinetic theory, chemical kinetics, transport properties, surfaces, macromolecules. Prerequisite: Course V3059x or permission of the instructor. Professor Zare. M W F 11.

61. Physical Chemistry I.

Atomic and molecular structure with an introduction to quantum mechanics. Spectroscopy with an introduction to the use of group theory. Optional laboratory experience with various types of spectroscopy. Prerequisites: Course 30, Physics V1103-V1104, and

Calculus III. Course 36 and Calculus IV are recommended. Professor Crawford. Lec. M W F 11. Laboratory W 1-5. Recitation hour to be arranged.

62. Physical Chemistry II.

Kinetic theory of gases. Transport processes. Statistical thermodynamics, entropy and the third law, partition functions, equilibrium. Theories of chemical kinetics and solutions. Prerequisites: Course 30, 36, Physics V1103-V1104, and Calculus III. Course 61 and Calculus IV are recommended. Professor Crawford. Lec. M W F 11. Recitation hour to be arranged.

68. Advanced Chemistry Laboratory.

Preparation and characterization of inorganic and organic compounds. Experiments in kinetics, spectroscopy, and electrochemistry using instrumental methods. Prerequisite: Course 36 or V3059x and Course 38 or equivalent. Professor Segal. Lec. one hour to be arranged. Laboratory, one or two afternoons, M W 1:10-5.

99x, 99y. Problems in Chemistry.

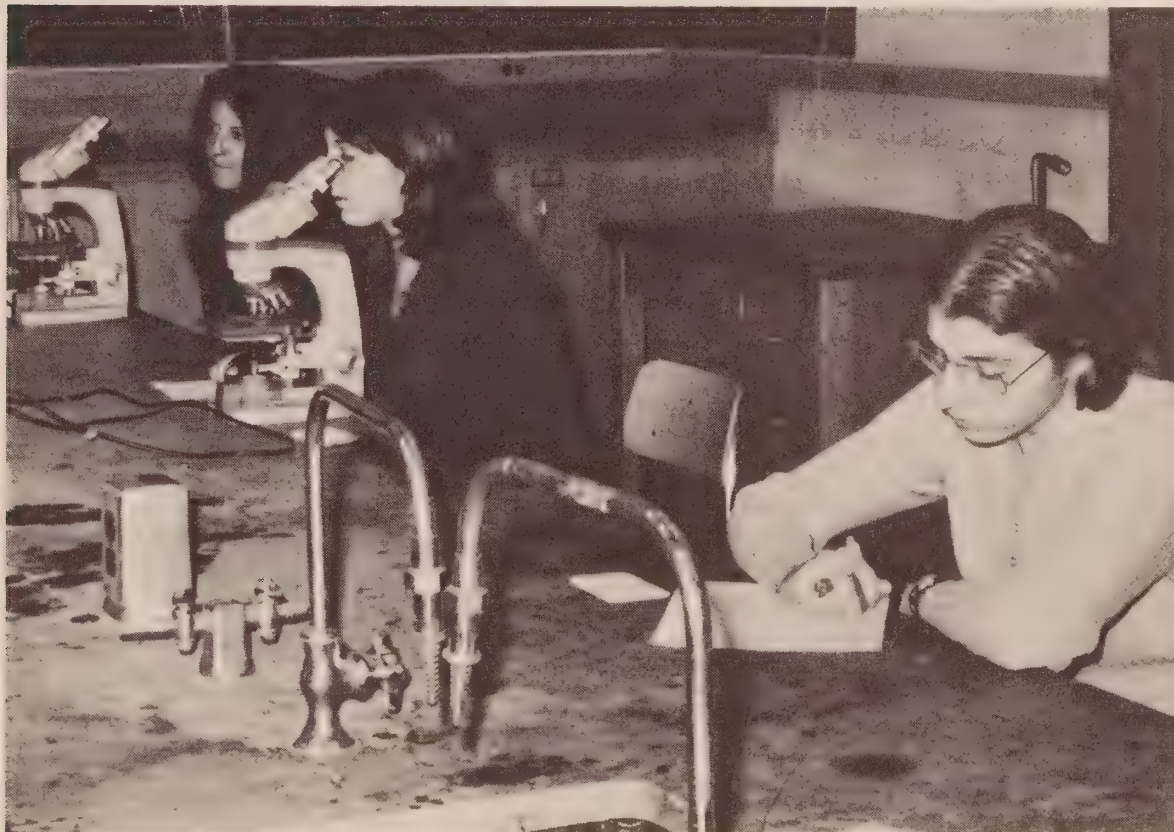
Advanced individual laboratory projects for students who have completed the major requirements. Staff. Eight hours by arrangement.

GRADUATE COURSES

Certain graduate courses given in the University are open to qualified majors with the consent of the department and the major adviser. These courses are described in the Bulletin of the Graduate School of Arts and Sciences.

BREAKAGE CHARGES

No charge is made for use of apparatus and materials in the chemistry laboratories. Payment will be expected for breakage in excess of \$10 per course.



Associate Professor

Jeanette Roosevelt (Program Coordinator; 207 Barnard Hall)

Assistant Professor

Sandra Genter (Workshop Director; 208 Barnard Hall)

Associate

Janet Soares

Lecturer

Walter Sorell

Instructors

Hannah Kahn,¹ Linda Lerner¹

¹Absent on leave, 1974-75.

Human movement is perhaps the most ordinary aspect of life. Yet it can be the most ecstatic form of human expression, particularly through dance. Dance heightens the awareness of being and disciplines the body. Thus it complements the development of the powers of the intellect.

Through its physical education program, Barnard College offers studio classes in modern dance, ballet, and jazz, as well as in general folk dance.

There is also within the physical education program a body movement workshop, based upon Laban's Effort-Shape Theory, which emphasizes kinesthetic perception and range of movement possibility through the exploration and analysis of space, time, and energy. There are performance opportunities for advanced students. Those interested should confer with Professor Roosevelt.

In addition, the Barnard Dance Theatre Workshop affords skilled dancers the opportunity to perform in workshop presentations, in concerts and in programs integrated with drama productions and those of other departments in the College. It sponsors symposiums, master classes conducted by guest artists, and other special events. Interested students should confer with Professor Genter.

The Program in the Arts: Students looking toward a career in dance performance or choreography should see the announcement on the Program in the Arts on pages 56-58 and should consult with Professor Roosevelt as soon as possible.

61-62. Dance Workshop.

Studio work in advanced dance technique, including problems in movement improvisation and the study of dance style through the performance of phrases from dance repertory. Students read from assigned sources, participate in master classes, and keep a journal which is read periodically by the instructor and discussed in conference with the student. Permission of the instructor required. Professor Genter. M Tu W Th 4:10-5:30. Conference hour to be arranged.

63. Form in Dance Composition.

Study of the development of dance form through the manipulation, according to formal composition principles, of rhythm, energy and design in movement. Written permission of the instructor required. Mrs. Soares. M 6-8, F 11-1.

64. Content in Dance Composition.

Research in the source materials of dance composition and exploration of their uses in choreography. Sources include gesture, movement texture, rhythmic structure, movement shape, and literary ideas. Emphasis upon unity of style in the work of each student. Prerequisite: Dance 63 or equivalent study elsewhere. Admission with approval of the instructor. Mrs. Soares. M 6-8, F 11-1.

§65, 66. History of Dance.

A survey of the development, history, aesthetics, and philosophy of dance, with particular reference to drama, opera, ballet, and modern dance. Lectures and demonstrations; interviews with specialists in the field and practice in selected dance movements. Permission of the instructor required. Registration limited. Professor Roosevelt and Mr. Sorell. Tu 6:10-8:50.

[74. Contemporary Dance Forms. Professors Roosevelt and Genter, and Mrs. Soares. Not given in 1974-75.]

76. Critical Writing on Dance.

A close examination of 19th and 20th century dance criticism, with practice in writing descriptively about movement and in composing critical analyses of dance performances. Prerequisites: Dance 65, 66 and permission of the instructor. Mr. Sorell. M 2:10-4.

RELATED COURSES

Students interested in dance will find the courses given below pertinent and should consult the departmental listings for course descriptions.

English 33-34. Play Production. Professor Janes.

Music 1-2. An Introduction to Music. Professor Doris and Mr. Schubert.

Philosophy 34. Concept of Beauty. Professor Mothersill.

Program in the Arts 1-2. Introduction to the Arts.

Professors Ulanov, Doris, Janes, Novak, Roosevelt and Mr. Sorell.



Drama

Director of the Minor Latham Playhouse

Kenneth Janes (231 Milbank Hall), Associate Professor of English

Assistants to the Director

Luz Castaños, Gordon Micunis, Janet Soares

Technical Director

Dennis Parichy

The Minor Latham Playhouse is the center of activities for Barnard students interested in the theater. Majoring in various departments, the students bring to the Playhouse their special abilities and the experience of such courses as those listed below. For further information, consult Professor Janes. Students participate in the staged productions, the experimental and classic drama, dance and opera studio projects of The Barnard College Theatre Company. The Gilbert and Sullivan Society and the Spanish, French, German, Russian, and Italian clubs work in close cooperation with the theater program. The Barnard Bulletin's drama column and WKCR (the Columbia radio station) offer other opportunities to develop abilities related to the theater arts. Barnard's location in New York enables students to attend productions on and off Broadway.

The Program in the Arts: Those students contemplating a career in theater should see the announcement on the Program in the Arts, pages 56-58, and should consult with Professor Janes at the earliest possible time.

Among the courses concerned with the theater are these, described in detail in the departmental announcements.

DANCE

61-62. Dance Workshop. Professor Genter.

65, 66. History of Dance. Professor Roosevelt and Mr. Sorell.

[74. Contemporary Dance Forms. Professors Genter and Roosevelt and Mrs. Soares.
Not given in 1974-75.]

76. Critical Writing on Dance. Mr. Sorell.

ENGLISH

13, 14. Dramatic Writing. Professor Teichmann.

21. The Uses of Speech. Professor Norman and Miss Caughran.

[23], 24. Oral Interpretation of Literature. Miss Caughran.

27. Public Speaking. Miss Caughran.

28. Persuasive Speaking. Professor Norman.

30x. Introduction to the Theater. Miss Castaños.

31, 32. Contemporary Theater. Miss Castaños.

33, 34. Play Production. Professor Janes, Mr. Parichy and Staff.

35, 36. The Actor's and Director's Interpretation of Dramatic Literature.
Professor Janes.

[40y. VII. The Contemporary British Stage. Professor Patterson. Not given in 1974-75.]

63, 64. Shakespeare. Professor Patterson.

69. Renaissance Drama. Professor Patterson.

86. Drama from Ibsen to the Present. Professor Ulanov.

FRENCH

16. Advanced Oral French. Professor Riffaterre.

20x. Spirit of Tragedy. Dr. Terry.

20. The Theater and Related Dramatic Forms. Mr. Potter.

34x. The French Theater of the Seventeenth Century. Professor Bailey.

[36. The French Theater of the Eighteenth and Nineteenth Centuries.
Not given in 1974-75.]

[39. Twentieth-Century French Theater. Professor Geen. Not given in 1974-75.]

48. Shakespeare in France. Professor Bailey.

GERMAN

[14. German Literature at the Turn of the Twentieth Century.
Professor Bradley. Not given in 1974-75.]

[15. Goethe and Schiller. Professor Sakrawa. Not given in 1974-75.]

[25. Great German Dramatists and Theaters of the Nineteenth Century.
Professor Sakrawa. Not given in 1974-75.]

[26. Modern German Theater. Professor Bradley. Not given in 1974-75.]

[46. German Literature in the Eighteenth Century.
Professor Sakrawa. Not given in 1974-75.]

GREEK AND LATIN

Classical Literature V3123y. Greek Drama and Its Influences. Professor Bacon.

Literature V3123y. Professor Bacon.

Greek V3305x. Tragedy. Professor Bacon.

[Greek V3307x. Comedy. Professor Benedict. Not given in 1974-75.]

Greek V3310y. Selections from Greek Literature, II. Professor Smith.

Latin V3309x. Selections from Latin Literature, I. Professor Wertis.

ITALIAN

[V3642y. A Study of Contemporary Arts: The Italian Film.
Professor Lorch. Not given in 1974-75.]

V3641y. The Italian Theater and its Contribution to European Theater.
Professor Lorch.

MUSIC

V1005x. The Opera. Professor Beeson.

RUSSIAN

[V1223x. Modern Slavic Drama in Translation. Not given in 1974-75.]

[V1229z. Russian Drama and Theater. Not given in 1974-75.]

SPANISH

[22. The Spanish Drama. Professor Ucelay. Not given in 1974-75.]

Economics

Associate Professors

Jean A. Gooch, Deborah D. Milenkovitch (Chairman; 406 Lehman Hall)

Assistant Professors

Sylvia Ann Hewlett, Cynthia B. Lloyd

Adjunct Assistant Professor

William H. Janeway

Instructor

Maryann Fogarty

Other officers of the University offering courses listed below:

Professors

Harold Barger, C. Lowell Harriss, Albert G. Hart, Seymour Melman, Edmund S. Phelps, Aaron W. Warner

Associate Professor

Ronald Grieson

Assistant Professors

Guillermo Calvo, Carlos Rodriguez, John B. Taylor

Lecturer

Norman Mintz

Preceptor

Joel Koblentz

As a major in economics, a student may arrange a program, with the help of her departmental adviser, to suit her individual needs and interests. For those planning graduate study in economics, special attention to economic analysis, statistics, and mathematics is recommended. Suitable programs can be arranged for students desiring to enter professional schools or planning to go directly into careers in business, research, government, or teaching. An appropriate sequence of courses can be planned, also, for the student whose interest is primarily in economics as a basis for informed citizenship.

A student majoring in economics will be required to take no fewer than 8 courses in economics from the Department's listed offerings. These courses shall include Courses 1 and 2; 27 or 28; 17; and a course in a field other than quantitative economics or economic theory for which Courses 1 and 2 are prerequisite.

Each senior major is required to take two semesters of the Senior Research Seminar, 61-62 or 62-61, in which the student will write a major research paper. This paper must be presented to the Department no less than eight weeks prior to the date on which the degrees are conferred. No major examination is required.

Other social sciences: In view of the essential unity of the social sciences, a major is required to take, in addition to a minimum of 8 courses in economics, one course in each of two of the following departments, selected in conference with her adviser and specifically approved by her adviser as fulfilling this requirement: anthropology, geography, history, philosophy, political science, psychology, religion, sociology.

§1x or 1y. Introductory Economics.

A study of basic economic concepts with emphasis on the analysis of the aggregate economy. Subjects covered include national income and its determination, business and labor organizations, business cycles, government finance and monetary economics. 1x. Section I. Professor Lloyd. M W F 10. Section II. Professor Hewlett. M W 2:10-3:25. Section III. Professor Gooch. Tu Th 9:10-10:25. 1y. Professor Milenkovitch. Tu Th 10:35-11:50.

§2x or 2y. Introductory Economics.

Subjects covered include the determination of price and income distribution through supply and demand; monopoly and antitrust policy; international economics; problems of developing nations; and alternative economic systems. Economics 1 is not a prerequisite for Economics 2. 2x. Professor Milenkovitch. Tu Th 10:35-11:50. 2y. Section I. Professor Lloyd. M W F 10. Section II. Instructor to be announced. M W 2:10-3:25. Section III. Professor Gooch. Tu Th 9:10-10:25.

[3. Introduction to Economic Analysis.

Professor Milenkovitch. Not given in 1974-75.]

§7. United States Economic History.

The causes of economic growth in the United States between the Colonial period and the Civil War. In illustrating the changing relations among the factors of production — land, labor, capital and entrepreneurship — emphasis will be placed on advances in technology, movements of capital and the contributions of all ethnic groups to the development process. Professor Gooch. Tu Th 10:35-11:50.

§8. United States Economic History.

The development of the American economy from the Civil War to the present time. Changes in the structure of market demand, in costs and in technology will be examined for their effect on industrial, financial and social institutions. The adequacy of the enterprise system, together with government, to solve the economic and social problems of earlier decades in contrast to those of the nineteen-seventies will be examined critically. Professor Gooch. Tu Th 10:35-11:50.

§10. Sex Discrimination and the Division of Labor.

Topics to be discussed include the extent of women's education; labor force participation by women; economic factors affecting marriage, divorce and fertility; economic discrimination against women; effect of government policy on women's position; and international and historical comparisons. Prerequisite: Course 2 or permission of the instructor. Professor Lloyd. M 2:10-4.

[12x.The Economics of Worker-Management. Professor Milenkovitch. Not given in 1974-75.]

[§16. Government Finance and Fiscal Policy. Not given in 1974-75.]

17, 18. Introductory Statistics.

Autumn Term: The gathering, processing, presentation and analysis of statistical data; linear correlation; and an introduction to statistical inference. Professor Gooch. Spring Term: Index numbers; time series; multiple correlation; and other techniques used in the social sciences. Prerequisite: Economics 17. Miss Fogarty. Lec. Tu Th 1:10-2. Lab. (2 hours) M 2:10-4, Tu 2:10-4, or 4:10-6.

§19. Labor Economics.

Factors affecting the allocation and remuneration of labor. Topics include population structure; unionization and monopoly; education and manpower training; mobility and information; sex and race discrimination; unemployment; and public policy; Prerequisite: Courses 1 and 2 or equivalent. Professor Lloyd. M W 11-12:15.

[20. International Economics. Not given in 1974-75.]

[§22. The Economics of Population. Professor Lloyd. Not given in 1974-75.]

§25, 26. Contemporary Economic Issues.

A survey of the leading economic issues in present-day American life, including international as well as domestic questions. Lectures by persons from business, labor, banking, and government; and discussion. Open to all except freshmen. Either term may be taken separately. Professor Janeway. W 4:10-6.

27. Intermediate Macroeconomics.

Keynesian and neo-Keynesian analyses of the aggregate economy. Prerequisite: Courses 1 and 2. Professor Hewlett. Tu Th 10:35-11:50.

28. Intermediate Microeconomics.

Theory of consumer demand, the pricing of goods and services in perfect and imperfect competition, the pricing of the factors of production, and a brief history of these ideas. Prerequisite: Courses 1 and 2. Professor Lloyd. M W 11-12:15.

S29y. The Economics of Underdeveloped Areas.

A critique of the theories of economic growth which will include dual economy models, historical stage theories, and balanced versus unbalanced growth. Brazil, India, China, Japan, Britain, and the U.S.A. will be used to illustrate differing strategies and degrees of success in the development process. Prerequisite: Courses 1 and 2 or permission of the instructor. Professor Hewlett. Tu Th 9:10-10:25.

S30x. Comparative Economic Systems.

An analysis of the principles of planned and market economies. Systems are compared from a theoretical point of view and through the study of typical economies: The United States, the Soviet Union, China, Yugoslavia, and France. Prerequisite: Courses 1 and 2 or permission of the instructor. Professor Milenkovitch. M W 2:10-3:25.

S31. The Development of Economic Thought, 1770-1970.

The intellectual origins of the main schools of thought in economics and the dynamic interaction between these schools of thought and governmental decision-making over the last two centuries. Particular attention will be paid to the theoretical controversies in contemporary economics. Prerequisite: Courses 1 and 2 or permission of the instructor. Professor Hewlett. Tu Th 9:10-10:25.

[33. Economic Planning.

Professor Milenkovitch. Not given in 1974-75.]

61, 62. Senior Research Seminar.

Discussions and conferences on the researching and writing of the senior essay. Section I. Professor Gooch. Section II. Professor Hewlett. Section III. Professor Lloyd. Section IV. Professor Milenkovitch. Hours to be arranged.

W1413x. Introduction to Quantitative Economics.

The development of fundamental mathematical concepts and techniques applicable to economics and business. An introduction to differential calculus and elementary linear algebra, with an emphasis on their use in micro- and macro-economic theory. Prerequisite: Courses 1 and 2 and permission of the instructor. Professor Calvo. M W 4:10-5:25.

W3228x. The Urban Economy.

Past and present economic functions of cities. Growth of metropolitan areas. Location theory; theories of site rent and urban form; analysis of the urban economic base. Impact of changing technology and social structure on central cities and suburbs. Problems of older central cities, including transportation, public finance, housing, and urban renewal. Effects of federal policy. The future of the city. Prerequisite: Courses 1 and 2 or permission of the instructor. Professor Grieson. M W 6:10-7:25.

W3251x. Industrial Organization and Public Control of Industry.

Organization and structure of American industries and their markets. Competitive behavior, pricing policies, and market performance. Antitrust policy and leading anti-trust cases. Prerequisite: Courses 1 and 2 or permission of the instructor. Instructor to be announced. M W 7:40-8:55.

W3257x. The War Economy.

The microeconomics and macroeconomics of military industry and its government management. Consequences for civilian industry and economy. Conditions of conversion from military to civilian economy. Prerequisite: Course 1 or the equivalent. Professor Melman. M 2:10-4; W 2:10-3.

W3414y. Introduction to Mathematical Economics.

The application of mathematical techniques to economic analysis. The theory of the firm and competition; theory of demand; static macro-economic models. Mathematical tools are developed as needed. Prerequisite: Courses 1 and 2 and permission of the instructor. Some knowledge of calculus is recommended. Professor Calvo. M W 4:10-5:25.

W3711x. Monetary Economics and Policy.

The nature of money and the United States monetary system. Monetary theory; monetary policy and how it affects the economy; current problems in the control of inflation. Prerequisite: Courses 1 and 2 or the equivalent. Professor Taylor. Tu Th 11-12:15.

W3861y. Taxation and Government Expenditures.

Theory and practice of government spending; principles of taxation, including distribution of burden and constitutional aspects; individual and corporation income, property, commodity and general sales, death and payroll taxation; shifting and incidence; administration. Prerequisite: Courses 1 and 2. Not open to students who have taken Economics 16. Professor Harriss. Tu Th 11-12:15.

W3862y. Government Budgeting, Public Debt, Intergovernmental Financial Relations, and Fiscal Policy.

Budgeting and problems of efficiency in governmental spending, intergovernmental financial relations; selected aspects of international comparative fiscal systems; borrowing and debt management; fiscal policy for economic stabilization and growth. Prerequisite: Courses 1 and 2. Not open to students who have taken Economics 16. Professor Harriss. Tu Th 2:40-3:55.

W3904x or y. International Economics.

The theory of international trade: comparative advantage and the factor-endowments explanations of trade; analysis of the theory and practice of commercial policy; economic integration. The balance of payments; adjustment in response to disequilibria; the foreign exchange market; alternative monetary systems. Proposals for reform of the international monetary system. Prerequisite: Courses 1 and 2. Professor Rodríguez. Tu Th 2:40-3:55.

W4321y. The Latin American Economy.

Economic developments, methods of economic planning, and the trend toward regional integration. Topics include development financing; monetary instability; international payments imbalances; rural poverty; goals and problems of a Latin American common market. Professors Hart and Hewlett. Tu Th 12.

W4453x. Industrial Relations.

Contemporary developments and trends in industrial relations in industrialized countries; role of trade unionism; theory and practice of collective bargaining; impact of technology and structural economic change. Regulation of industrial conflict; problems of joint consultation and joint management arrangements; industrial relations in regulated and public enterprises. Relevance of industrial relations to national economic planning. Consent of Barnard department and major adviser required. Professor Warner. Tu 2:10-4.

W4521x. The Postwar Economy of Western Europe.

Economic growth in developed countries; capital and labor supply and industrial loca-

Economics

tion; inflation, stabilization and the balance of payments; integration and the Common Market; centralized planning in Britain, France, and elsewhere; Europe in world trade and payments; East-West trade; Europe and the underdeveloped world. Professor Barger. M 4:10-6.

W4524y. Economic Organization in the Soviet Union and Eastern Europe.

Organization and performance of Soviet-type economies. Pressures for changes. Comparisons of reforms in Yugoslavia, Eastern Europe, and the Soviet Union. Professor Milenkovitch. M W 12.



The following program is supervised by the Committee on Education:

President, ex officio

Martha Peterson

Professor of Education

Patricia Albjerg Graham (Chairman; 336B Milbank Hall)

Frederick A. P. Barnard Professor of Education, Teachers College, Columbia University

Lawrence A. Cremin

Professor of English

Barry Ulanov

Professor of History

Annette K. Baxter

Professor of Philosophy

Joseph G. Brennan

Professor of Political Science

Demetrios Caraley

Associate Professor of French

Renée Geen

Assistant Professor of Education and Psychology

Susan Riemer Sacks (336A Milbank Hall)

Assistant Professor of Psychology

Edward S. Cobb

Associates in Education

Giselle Harrington, Katherine Wilcox

The Education Program does not constitute a major; it is taken in conjunction with a major in some other subject.

The program is open to qualified Barnard students who wish to teach in elementary or secondary schools. For a New York State Provisional License, valid for five years, a student wishing to teach at the **secondary** level (grades 7-12) must complete: one Psychology course (Psychology 5, 27, 34x); either History 65, Philosophy 84, or Sociology V3225x; and one methods course in the student's specific subject area. A student preparing for **elementary** education (grades k-6) must complete: three courses, one in psychology and two others (Psychology 5, 27, 34x, History 65, Philosophy 84, Sociology V3225x), and Education 2 in the Spring Term of the junior year.

All students in the Education Program student teach **one semester** during their senior year. Student teaching should be registered for as Education 3, 4x in the Autumn Term or Education 3y, 4 in the Spring Term. During the student teaching semester only, the students must attend the teaching seminar, which focuses on the principles and practices of classroom teaching. During their student teaching semester, no more than two other courses should be taken.

A permanent license requires a master's degree, which need not include any additional work in education.

Before the end of the sophomore year, students interested in teaching should confer with the Education Program staff. Juniors who wish to apply for admission to the program should file applications, obtainable in the Education Program office, at the beginning of the Autumn Term. Decisions for admission to the Program are announced on the first day of the Spring Term of the Junior year.

Education 2. Problems in Teaching Reading and Arithmetic.

Children's problems in learning to read and to do arithmetic are examined through direct contact with children and through study of the literature. Students will work in the schools and tutor children with difficulties and will assess their work in a weekly seminar. This course is a prerequisite to student teaching in the elementary grades. Limited to students admitted to the Education Program. Seminar. Professor Sacks. Tu 2:10-4.

Education 3, 3y, 4x, 4. Introduction to Teaching in the Elementary and Secondary Schools.

Education 3 and 4 must be taken concurrently and are required for licensing for public school teachers. They involve observation and student teaching in elementary and secondary schools. The accompanying seminar examines contemporary issues in American education. Individual conferences assess pedagogical problems encountered in student teaching. Student teaching is done during one term four or five half-days a week, generally in the morning. The term in which student teaching is done the course will be designated Education 3, 4 and will be considered equivalent to two courses. Requisite: admission to Education Program. Seminar. Professors Graham and Sacks and staff. Autumn Term: W 2:10-4; Spring Term: M 2:10-4.

History 65. History of Education in the United States.

The development of American education in the context of social and intellectual history. Permission of the instructor required. Professor Graham. Tu 2:10-4.

Philosophy 84. Philosophy of Education.

Philosophical presuppositions of intellectual and moral education. Examination of topics such as innate ideas; natural moral characteristics; permissiveness; "free" schooling; "deschooling"; material and moral incentives. Readings will include selections from Plato, Rousseau, Piaget, Dewey, Chomsky, Illyich, Neil, and current periodical literature. Professor Nell. M W F 1:10.

Sociology V3225x. Sociology of Education.

The social organization of education in the United States, with emphasis upon primary and secondary schools. Topics include: The school as a complex organization; the classroom as a learning environment; social factors in academic aspirations and achievement; selected innovations in educational practices; and problems in the relations between the school and the community. Instructor to be announced. M W F 1:10.

English 98. V. The Teaching of English.

Primarily for students in the Education Program. Miss Caughran. W 2:10-4.

French-Spanish 90. Problems in the Teaching of French and Spanish.

Classroom and laboratory materials available to the teacher of French and Spanish; organization of courses; approaches to conversation, grammar, translation, and literature. Primarily for students in the Education Program; others by written permission of the instructor. Mrs. Daly. Tu 2:10-4.

History 63. Problems in the Teaching of History.

The selection and organization of content for junior and senior high school history courses; use of primary sources, secondary readings, and other relevant materials; problems of evaluation. Primarily for students in the Education Program; others by written permission of the instructor. Mrs. Jones. M 4:10-6.

Professors

John A. Kouwenhoven,¹ Richard A. Norman, Remington Patterson (Chairman; 408B Barnard Hall), David A. Robertson, Jr.,² Eleanor M. Tilton, Barry Ulanov

Adjunct Professor

Howard M. Teichmann

Associate Professors

Kenneth H. Janes (Director of Minor Latham Playhouse), Ruth M. Kivette,¹ Joann Ryan Morse (Departmental Representative; 401B Barnard Hall), Anne Lake Prescott (Director of English A; 401C Barnard Hall)

Adjunct Associate Professors

Joy Chute, Elizabeth Hardwick

Assistant Professors

Lois A. Ebin, Maire J. Kurrik, Catharine R. Stimpson, Janice Farrar Thaddeus

Associates

Elizabeth Caughran, Elizabeth Dalton, Marjorie Housepian Dobkin,³ R. Christine Royer, Quandra Stadler

Instructors

Constance Colby, Joanna Cole, Naomi Lipman, Ruth M. Mathewson, Billy Tracy

Assistant

Margaret D. Hance

¹ Absent on leave, Autumn Term.

² Absent on leave, Spring Term.

³ Absent on leave, 1974-75.

A student majoring in English will study the works of the principal poets, novelists, essayists, and playwrights of England and America in their contemporary contexts. She will acquire a knowledge of the history of literature, develop her ability to understand and evaluate texts, and improve her own writing and speaking.

In consultation with her departmental adviser, a major in English will plan her program to include course 93 in her sophomore or junior year, and course 59-60 in her junior year. In her senior year she will take course 97 and course 98; in each of these she will undertake an independent project. In addition she will elect five courses (normally from courses 55-90) so distributed as to acquaint her with a variety of texts of different genres and different periods. A student may choose in place of no more than two of these five courses, courses in writing, speech, or theater. Majors with a special interest in writing, speech, or theater should study the departmental offerings under those headings.

Program in the Arts: Those students interested in this Program should see the announcement on pages 56-58, and should consult with Professor Ulanov or Professor Janes as soon as possible.

INTRODUCTORY**A. Freshman Studies in English.**

An approach to literary skills through intensive reading, regular assignments in composition, and discussion; frequent individual conferences with the instructor. Topics of sections include The American Identity, The Significance of the Past, The Modern Tradition, Writing, Poetry, and Literary Genres. Prescribed for all freshmen. Professor Prescott and Members of the Department. Sections of Course A meet at the following hours: M W F 9, 10, 11, 12:10, 1:10, 2:10. Tu Th 9:10-10:25, 10:35-11:50, 1:10-2:25, 2:40-3:55.

2x, 2. Special Seminar in Reading and Writing.

Permission of the instructor required. Frequent conferences. I. For students who want additional work in writing. Mrs. Mathewson. W 2:10-3. II. For students whose first language is not English. Mrs. Colby. M W 2:10-3.

WRITING

Registration in each course is limited, and the written permission of the instructor is required; signed departmental registration blanks are to be filed with Professor Morse (401B Barnard Hall). Two writing courses may not be taken concurrently. A major with a special interest in writing who has had two writing courses may substitute a third writing course for either course 97 or course 98 in her senior year. She will undertake an independent project in the selected writing course as well as in the senior seminar (97 or 98).

3, 4. Structure and Style.

English composition above the first-year level. Frequent individual conferences. Students may take either term or both. I. Fiction and personal narrative. Miss Dalton. M 2:10-4. II. Essays. Autumn Term: Miss Royer. Th 2:10-4. Spring Term: Professor Kouwenhoven. Tu Th 9-9:50. III. Poetry. Spring Term: Professor Thaddeus. Tu 2:10-4.

[6. Advanced Composition. Mrs. Dobkin. Not given in 1974-75.]

7, 8. Experiments in Writing.

Advanced work in various forms. Individual conferences with the instructor. Professor Hardwick. Th 2:10-4.

11, 12. Story Writing.

Advanced work in writing, with emphasis on the short story. Individual conferences with the instructor. Some experience in the writing of fiction is prerequisite to this course. Professor Chute. Tu 4:10-5:05.

13, 14. Dramatic Writing.

The development of a dramatic situation in terms of short fiction, the theater, television, motion pictures, and radio. Completed works are discussed, given dramatic readings by the class, and recorded on tape. Professor Teichmann. Tu Th 2:40-3:55.

SPEECH

To elect any course in speech a student must secure the written permission of Professor Norman or Miss Caughran. A major with a special interest in speech who has had two speech courses may substitute a third speech course for either course 97 or course 98 in her senior year. She will undertake an independent project in the selected speech course as well as in the senior seminar (97 or 98). Her work should include course 21 and courses in public speaking and oral interpretation.

21, 21y. The Uses of Speech.

Training in voice production and clear articulation. Designed to improve the student's speech through drill, practice in reading aloud, the presentation of oral reports, and extemporaneous speaking. Use of the language laboratory. Registration limited to 15 students. Autumn Term: Professor Norman. M W F 11. Spring Term: Miss Caughran. Tu Th 2:40-3:55.

[22. American and British Dialects. Not given in 1974-75.]

[23,] 24. Oral Interpretation of Literature.

Study of literary texts for oral performance. Fictive prose and poetry, with class projects exploring reading modes from informal presentation to reader's theater. Spring Term: Miss Caughran. Tu Th 10:35-11:50.

27. Public Speaking.

Study of the basic principles of informal and formal speaking with emphasis on the selection and organization of materials, on audience psychology, and on effectiveness of delivery. Professor Norman. Tu Th 10:35-11:50.

28. Persuasive Speaking.

Theory and practice of persuasive speaking: the use of evidence and opinion, logic, and audience motivation in the presentation of controversial views and current issues. Professor Norman. Tu Th 10:35-11:50.

THEATER

To elect any course in theater (except course 30x) a student must secure the written permission of the instructor. Majors with a special interest in theater should consult with a faculty member of the theater staff concerning courses in theater. A major who has had at least one course in speech and two in theater may substitute a course in theater for either course 97 or course 98. She will undertake an independent project in the selected theater course as well as in the senior seminar (97 or 98).

30x. Introduction to the Theater.

A survey of historic and modern theater with emphasis upon the origins of theater, the nature of the dramatic act, and the place of theater in society. Special attention is paid to the interrelation of dramatic literature, styles of production, and the organization of theater. Individual and group projects in related research. Class attendance at professional theater productions. Miss Castaños. W 2:10-4

31, 32. The Contemporary Theater.

A study of the major developments in the contemporary theater, especially the nature and treatment of the text, the actor's art, and the function of the director. The course will include acting and directing projects by class members. Permission of the instructor required. Miss Castaños. M 2:10-4. Lab. hours to be arranged.

33, 34. Play Production.

A study of the technical aspects of the theater and the ways in which they complement the work of the playwright, director, choreographer, and actor. Guest lecturers in specialized areas from the professional theater. Permission of the instructor required. Professor Janes, Mr. Parichy, and Theater Staff. Tu Th 2:40-3:55.

35, 36. Actor's and Director's Interpretation of Dramatic Literature.

The practical study of Renaissance and Restoration dramatic literature for actors and directors. Permission of instructor required. Professor Janes. F 2:10-4. Lab. hours to be arranged.

LANGUAGE AND LITERATURE

For nonmajors, courses marked **S** will count toward the general college requirement.

40x, 40y. Seminars on Special Themes.

Permission of the instructor required.

40x. (Autumn Term)**I. Psychoanalytic Approaches to Literature.**

Study of literary expression in the light of psychoanalytic thought; reading in Freud and other psychoanalytic writers, Shakespeare, Keats, James, Kafka, Lawrence, Dostoevsky, and others. Miss Dalton. M W F 1:10.

SII. Ulysses and Its Background.

A study of Joyce's comic epic and its sources: Homer, Shakespeare, Swift, Pater, Yeats. Professor Morse. M W F 11.

§III. The City in Literature.

The effect of the growth of cities on the literary imagination. Readings in Stephen Crane, Theodore Dreiser, New York poets, and others. Professor Stimpson. Tu Th 2:40-3:55.

40y. (Spring Term)

§IV. Fable and Fantasy.

Selected works by nineteenth and twentieth century authors: Lewis Carroll, G. K. Chesterton, C. S. Lewis, and others. Their use of religious and philosophical fable, nonsense and paradox; their creation of other worlds. Professor Prescott. M W F 1:10.

§V. Sexuality in Literature.

Sexual roles and the place of woman as represented in the Bible and in works by Shakespeare, Jane Austen, D. H. Lawrence, Doris Lessing, and others. Professor Stimpson. M W F 10.

§VI. Explorations of Black Literature.

A study of black expression in America; slave narratives, folklore, and song; works by Chesnutt, Du Bois, and others. Mrs. Stadler. Tu Th 10:35-11:50.

§41, 42. Major English Texts.

A general view of the scope and variety of English literature and its place in world literature through study of selected writers and their works. Autumn Term: Chaucer through Milton. Spring Term: Dryden to the beginning of the twentieth century. Miss Royer. M W F 1:10.

§55. Chaucer.

Chaucer's **Canterbury Tales**. Professor Ebin. Tu Th 10:35-11:50.

[§56. Chaucer and his Contemporaries. Not given in 1974-75.]

[§58. Medieval Literature. Professor Ulanov. Not given in 1974-75.]

59-60. The English Colloquium.

The major writers, major works, and major genres of the literature from the late fifteenth century to the late eighteenth century, examined in terms of the leading ideas of the period. Required of junior majors; election by nonmajors if numbers permit.

I. Reason and Passion.

Reason, folly, and wisdom; indulgence, abstinence, and temperance; reason, imagination, and revelation; rationality and irrationality. Autumn Term: Professors Prescott and Thaddeus. Spring Term: Professors Patterson and Thaddeus. W 2:10-4.

II. Imitation and Creation.

New ideas of the mind's relation to the worlds it perceives and the consequences for art. New perspectives, the emergence of new forms, experimentation with old forms, and the search for an appropriate style. Professors Ebin and Morse. W 4:10-6.

III. Ideas of Order and Disorder.

Form and structure achieved or defeated in the work of art and in the world. The rise of the man of letters and vernacular literature. The drama of self-definition. The development of modern notions of subjectivity, self-confidence, and revolutionary change. Professors Ulanov and Kurrik. Th 4:10-6.

§63, 64. Shakespeare.

A critical and historical introduction to the comedies, histories, and tragedies of Shakespeare. Professor Patterson. M W F 11.

§65. Spenser and the Tudor Renaissance.

Humanism, the Reformation, the New World; courtly poetry and popular prose from Skelton and More through Sidney and Nashe, with special attention to Edmund Spenser. Professor Prescott. M W F 1:10.

§66. Seventeenth-Century Literature.

Classicism and mannerism in poetry from Jonson and Donne to Marvell; plain and ornamented prose in Bacon, Burton, Browne, Milton, and others. Professor Kivette. M W F 1:10.

§67y. Milton.

A close reading and critical analysis of Milton's poetry with particular attention to **Paradise Lost**, **Paradise Regained**, and **Samson Agonistes**. Professor Kivette. M W F 10.

§69. Renaissance Drama.

Major plays of the English Renaissance from the Tudor interlude to the closing of the theaters, with emphasis on Marlowe, Jonson, and Webster. Professor Patterson. Tu Th 10:35-11:50.

§71. The Novel.

The central English tradition, including works by Defoe, Richardson, Fielding, Austen, Bronte, George Eliot, Meredith, Hardy, and Dickens. Professor Kurrik. M W F 12:10.

§73. Literature of the Restoration and Early Eighteenth Century.

Developments in satire, drama, the essay, and the beginnings of the novel. Authors include Etherege, Congreve, Pope, Swift, Defoe, and Fielding. Professor Thaddeus. M W F 10.

[§74. **Later Eighteenth-Century Literature.** Professor Thaddeus. Not given in 1974-75.]

§76. Prose and Poetry of the English Romantics.

The thought and style of Blake, Wordsworth, Coleridge, Hazlitt, Lamb, De Quincey, Byron, Keats, and Shelley. Professor Tilton. Tu Th 9:10-10:25.

§77. The Victorian Age in Literature.

Prose and verse concerning problems of society and religion: Carlyle, Disraeli, Macaulay, Mill, Newman, Huxley, Tennyson, Browning, Arnold. Professor Robertson. Tu Th 10:35-11:50.

[§78. **Victorian Poetry and Criticism.** Professor Robertson. Not given in 1974-75.]

§79. American Literature, 1630-1865.

The Puritan background, the Revolutionary period, and the major American Romantics: Hawthorne, Poe, Melville, Emerson and the Transcendentalists, Whitman. Professor Tilton. Tu Th 9:10-10:50.

§80. American Literature, 1865-1950.

The experimenters in prose and poetry from James to 1950. Miss Royer. M W F 11.

§82. Seminar in American Literature.

Melville, Whitman, and a twentieth-century writer to be chosen by the student in consultation with the instructor. Prerequisite: English 79 or 80 or permission of the instructor. Professor Kouwenhoven. W 9-10:50.

[§83. **Modern Literature and the Allied Arts.** Professor Ulanov. Not given in 1974-75.]

Art History-English 84. The Vernacular in the American Arts of Design.

The conflict between the "cultivated" and "vernacular" styles. The development of an American aesthetic in technology, architecture, fine arts, literature, and other arts. Professor Kouwenhoven. W 2:40-4:55.

585. Modern British and American Poetry.

The thought and style of Hopkins, Yeats, Frost, Robinson, Pound, Eliot, Stevens, and more recent writers; the literary movements with which they are associated. Professor Ulanov. Tu Th 2:40-3:55.

86. Drama from Ibsen to the Present.

Reading of English, Continental, and American plays, of which the most important will be analyzed in class. Professor Ulanov. Tu Th 2:40-3:55.

[87. Major American Writers and Their Foreign Sources.

Professor Tilton. Not given in 1974-75.]

588. The Modern Novel.

Works by James, Conrad, Lawrence, Joyce, and Forster. Professor Morse. M W F 12:10.

589. British and American Literature since the Second World War.

A study of English and American writers since 1945 concentrating on works by writers who challenge political conventions and literary traditions. Reading to include Beckett, Burroughs, Doris Lessing, Mailer, Nabokov and Gwendolyn Brooks, and some reference to popular culture. Professor Stimpson. M W F 11.

90. The English Language: History and Use.

An introduction to the history of words, pronunciation, and structure in the light of literary tradition and linguistic science. Professor Norman. M W F 10.

93 (or 93y). Literary Criticism: Analysis and Evaluation.

The purpose of the course is to provide experience in the reading of literary texts and some knowledge of conspicuous works of literary criticism. Frequent short papers. Registration in each section is limited. Students must file departmental registration forms with Professor Kurrik (422 Barnard Hall) before completing their programs.

All English majors are required to take Course 93 (or 93y) before the end of the junior year. Sophomores are encouraged to take it in the Spring Term before they officially declare their major. Transfer students should plan to take 93 in the Autumn Term.

Professors Robertson, Norman, Tilton, Stimpson, Prescott, Kivette, Kurrik, and Miss Caughran. Section I. M 2:10-4. Section II. Tu 2:10-4. Section III. W 2:10-4. Section IV. Th 4:10-6.

97, 98. Studies in Literature.

Open to majors and nonmajors. These seminars provide opportunities for intensive study of subject matter to which students have already been introduced in other courses. Each student will undertake a project of her own and will present her work in a substantial paper. Registration in each section is limited, and the written permission of the instructor and of Professor Tilton is required.

All majors are required in their senior year to take one section of 97 and one of 98. Majors who specialize in writing, speech, or theater may substitute for 97 or 98 a course in their special interest in which they do an independent project.

97. (Autumn Term)

I. The Middle Ages.

Quest and vision: a study of the artistic uses of the romance and the dream vision as vehicles for exploring man's inner and outer worlds with particular attention to works by Chaucer, the **Gawain** Poet, William Langland, Gower, and Dunbar. Prerequisite: English 55 or 58 or equivalent reading. Professor Ebin. Tu 2:10-4.

II. The Renaissance.

Images of human nature in English Renaissance literature: the courtier, the man of

learning, the lover, the Christian. Focus on More, Spenser, Shakespeare, Donne, Milton. Prerequisite: English 65 or 66 or 67, or equivalent reading. Professor Prescott. W 2:10-4.

III. The Eighteenth Century.

Progress and the satiric response in works by Swift, Fielding, Johnson, Blake, and others. Prerequisite: English 73 or 74 or equivalent reading. Professor Thaddeus. Th 2:10-4.

IV. Romanticism.

"The Egotistical Sublime," or Wordsworth in the eyes and work of his contemporaries. Prerequisite: English 75 or equivalent reading. Professor Tilton. W 2:10-4.

V. American Literature (1880-1950).

The rite of initiation in works by Mark Twain, James, Crane, Fitzgerald, Ellison, McCullers, Bellow, and a number of poets. Prerequisite: English 79 or 80 or equivalent reading. Miss Royer. M 2:10-4.

98. (Spring Term)

I. The Death of the Hero: Studies in Tragedy.

Greek, Elizabethan, classical French, and modern works, read in conjunction with significant theories of tragedy: Aristotle, Nietzsche, Frazer, Freud, and Artaud. Miss Dalton. Tu 2:10-4.

II. Studies in the Novel: Subjectivity and Authority.

An examination of the novel with emphasis on problems of subjectivity, fictional authority, and genre theory; its reputation among writers and critics in the past and its position in the critical pluralism of the present. Professor Kurrik. M 2:10-4.

III. The Romantic Survival.

Romantic images and forms in Wordsworth, Dickens, Hardy, Eliot, and others. Professor Morse. Th 4:10-6.

IV. Film and Word.

The influence of literature on films, films on literature; the use of the script; some study of the grammar of the film. Professor Stimpson. W 2:10-4.

V. The Teaching of English.

The place of English in the curriculum and the role of the English teacher; grammar, composition, literature, testing, and grading. Primarily for students in the Education Program. Miss Caughran. W 2:10-4.

99y. Independent Work.

Students who wish to prepare a senior essay on an individual basis instead of taking course 98 should consult Professor Tilton (419 Barnard Hall) before registering. Professor Tilton. Hours to be arranged.

Environmental Conservation and Management

This program is organized and administered by a committee of members of the Departments of Biology, Geography and Geology:

Professor of Geography

Leonard Zabler, Chairman

Professors of Biology

Patricia L. Dudley

Donald D. Ritchie

Professor of Geology

John E. Sanders

Associate Professor of Biology

Frederick E. Warburton

This program acquaints the student with a set of issues that are crucial to the survival of mankind and begins the development of the means to cope with them. These issues concern the adequacy of the earth's natural resources to sustain an environment of quality when confronted by the pressures of the current urban-technologic-population explosion. Their combined effects threaten the natural environment with profound and possible irreversible disturbances and question western man's land ethics.

The goals of the program are: (1) to train and equip students with the requisite skills, values, and attitudes to enable them to participate in the work of designing, establishing, and maintaining a viable ecologic habitat for man, and (2) to promote the development of research skills in environmental science. The concept of the ecosystem lends unity to the multi-disciplinary character of environmental studies.

This academic program is designed around the idea that man's ecosystem is the set of interacting relationships among the physical, biological, and cultural forces that govern the human realm. Coherence is provided by core courses followed by in-depth studies along one of several subject matter or managerial tracks. The core courses are: General Biology (Biological Sciences 1-2), Ecology (Biological Sciences 8), Environmental Science (Geography 1, 2), and Conservation Theory (Geography W4014y). In addition, a cluster of conservation courses on field work, readings, lab projects, and internships has been developed. Students may opt to follow a managerial or a scientific program. Model programs are available from the committee. The core plus five advanced electives, one of which shall be a year seminar, satisfy the major requirements. Examples of specialized paths are: urban ecology, biological conservation, environmental and physical resources, coastal zones, urban and suburban land planning, environmental center operation. Students are encouraged to attend a summer field program in conservation, ecology, or earth science. To receive college credit see Committee Chairman for approval.

41, 42. Colloquium.

Readings, discussions, reports, and lab or field study of selected aspects of man's relation to the environment. Occasional invited guests. Topics and sections will be announced at the beginning of the semester. Permission to register is required. Members of the Faculty. Hours to be arranged.

51, 52. Environmental Projects.

Special study projects in environmental science, field research, internships, and environmental issues of interest to the student. Individual arrangements with a member of the faculty.

69,70. Seminar.

Reports and discussions of current individual or joint field research culminating in the senior essay. Committee Members. Hours to be arranged.

Environmental Conservation and Management

Additional courses in the program are offered by Biological Sciences, Geography, and Geology. For complete descriptions consult department course listings.

Biological Sciences 3. The Biology of Plants.

Biological Sciences 4. Natural History of the New York Area.

Biological Sciences 8. Physiological Ecology.

Geography 4. Ecology of Urban Industrial Society.

Geography 31. Environmental Policy.

[Geography 32. Land Use and Transportation. Not given in 1974-75.]

Geography 33. Environmental Planning and Perception.

Geography 46. Environmental Monitoring.

Geography 61. Urban Parks and Environmental Centers.

Geography W4011x. Pedology and Soil Resources.

[Geography W4012x. Hydrology and Water Resources. Not given in 1974-75.]

Geology 48. Coastal Zone Management.

Geology W4226y. Continental Shelf Sedimentation.

Geology W4927x. Principles of Oceanography.



Foreign Area Studies

This program is supervised by the Committee on Foreign Area Studies:

Professor of Chinese and Japanese

John Meskill, Chairman

Professor of Anthropology

Abraham Rosman

Professors of English

David A. Robertson, Jr.

Barry Ulanov

Professor of History

Chilton Williamson

Associate Professor of French

Serge Gavronsky

Associate Professor of Oriental Studies

Barbara Stoler Miller¹

Assistant Professor of History

Daniel Field

Assistant Professor of Spanish

Marcia L. Welles

¹ Absent on leave, 1974-75.

The purpose of Foreign Area Studies is to provide an introduction to the study of some one foreign region or country of the world. The work is divided into three elements: language, a scholarly discipline, and a diversified approach to a region. The student who wishes to major may choose one of the regions listed below. The courses named under each region include only those most commonly elected. Other courses, or other regions of concentration, may be chosen upon approval of the project by an adviser. Concentrations in African Studies can be arranged in certain departments; for information see advisers in Anthropology, Geography, History, and Political Science. For fuller descriptions of the courses listed, see under the appropriate department.

The senior requirement varies according to the region studied. Majors should consult their advisers for details.

A major in Foreign Area Studies is open to a limited number of qualified students whose applications are approved by the committee in charge. Freshmen and sophomores anticipating such a major should consult their class advisers and the officer in charge by March 1 of the sophomore year.

Asia (Adviser: Mr. Meskill) See Oriental Studies, page 144.

British Civilization (Adviser: Mr. Robertson)

This program emphasizes historical and literary traditions of British Civilization and is comprehensive enough to include specialized interests in the fields of imperial and commonwealth studies. A student who wishes to major should plan, in consultation with her adviser, a program to include (a) four courses in history; (b) four additional courses, of which two must be in English literature; (c) two courses in senior seminar in History or English.

Latin America (Adviser: Mrs. Welles)

A major consists of the starred courses and additional courses, the latter chosen to meet the following requirements: (a) one course in Latin American history; and (b) five more

courses, of which two should be in one department and above the introductory level, chosen with the help of the adviser.

Anthropology V3010y. Native South America.

Anthropology V3029y. The Archaeology of the New World.

Economics W4321y. The Latin American Economy.

Geography W4201x. Latin America.

History W4779x-W4780y. History of Latin American Civilization.

Political Science G4461x. Latin American Political Behavior.

Spanish 11. Significant Themes of Contemporary Latin American and Spanish Literature.

*Spanish 14. Spanish-American Culture.

*Spanish 31-32. Spanish-American Literature.

*Spanish 34. Latin American Seminar.

Russia (Adviser: Mr. Field)

A major consists of the starred courses and additional courses, the latter chosen to meet the following requirements: (a) at least two courses in Russian literature above the language requirement level; (b) four more courses on Russia; chosen with the help of the adviser; (c) three courses chosen from appropriate colloquia and senior seminars in consultation with the adviser; and (d) a reading knowledge of Russian adequate for research in the senior seminar.

Art History G4331y. Russian Art.

Geography W4401x. Economic and Population Geography of the U.S.S.R.

History 23. The Russian Revolutions of 1917.

*History 27. Russia from the Time of Troubles to the Era of Reforms.

*History 28. Russia from the Era of Reforms to the Death of Stalin.

[History 29. Pre-Petrine Russian Culture.]

History 30. Russian Radicalism and Its Antagonists.

[History 31. Serfdom in Russia and Slavery in the United States.]

Political Science 20. Colloquium on Communism and Revolutionary Change.

Political Science 21. Colloquium on Politics and Social Change in the U.S.S.R.

Political Science G4487y. The Dynamics of Soviet Politics.

Russian V1224y. Introduction to Russian Culture.

Russian V3333x, V3334y. Introduction to Russian Literature.

Russian V3462x. Gogol.

[Russian V3464y. Dostoevsky.]

[Russian V3465x. Russian Poetry in the Nineteenth and Twentieth Centuries.]

[Russian V3467y. Twentieth-Century Prose Writers.]

Sociology G4010y. The Structure of Soviet Society.

Western Europe (Adviser: Miss Fagan)

For the program on England, see British Civilization above. For other Western European countries, such as the French, German, Italian, and Spanish-speaking countries, a major consists of the starred courses and additional courses, the latter chosen to meet the following requirements: (a) two courses in the literature of one country, in the original language; (b) four more courses on the same country, chosen with the help of the adviser; and (c) two courses of senior seminar, usually in History.

The courses listed below are meant to indicate only the foundations on which a full program may be based. For more information, consult the adviser.

*History 11. Main Currents of the Modern European World: Renaissance to the French Revolution.

Foreign Area Studies

*History 12. Main Currents of the Modern European World: Waterloo to Today.

[Two other history courses may be substituted for 11 and 12 with the approval of the adviser.]

History 25. The Establishment and Downfall of the French Monarchy: 1515 to 1789.

History 26. France in Turmoil: 1789 to Today.

French 21, 22. Masterpieces of Literature from the Middle Ages to the Twentieth Century.

[German 11. Studies in German Literature (in German).]

[German 14. German Literature at the Turn of the Twentieth Century.]

German 55y. Masterpieces of German Literature and Thought.

History 13. The Italian Renaissance.

[History-Italian W3197x. Dante's World.]

Italian V3113x-V3114y. Introduction to the Reading and Analysis of Italian Literature.

[Italian V3221x-V3222y. Machiavelli, Castiglione, Ariosto, and Tasso.]

English-Italian C3358y. Artistic Theory in the Renaissance.

[Italian V3449x-V3450y. Modern Italian Literature.]

Spanish 13. The Culture of Spain.

Spanish 18. Literature of the Golden Age.

Spanish 23y. Nineteenth Century Literature in Spain.

Spanish 25. Contemporary Spanish Literature, Part I.

Spanish 26. Contemporary Spanish Literature, Part II.

[Art History 69. French Architecture 1500-1800.]

Art History [75,] 76. European Painting Since the Renaissance.

*History 91-92. Senior Seminars in European Civilization.



Professors

Helen Phelps Bailey, LeRoy C. Breunig, Maurice Z. Shroder (Chairman; 316 Milbank Hall)

Associate Professors

Serge Gavronsky, Renée Geen, Tatiana Greene

Assistant Professors

Danielle Haase-Dubosc,¹ Hermine Riffaterre, Domna Stanton

Lecturer

Patricia Terry

Instructors

Simone Daly, Lang Hoan Pham, Charles Potter, Lynda Snead

¹Director of Studies, Reid Hall.

Courses in the French department have a twofold objective: to perfect fluency in the written and the spoken language; and to develop an understanding and appreciation of the literature and culture of France.

New students who have already given evidence of advanced training in French may automatically be exempted from the language requirement. All other new students who intend to satisfy their requirement in French will, depending upon their preparation, be placed immediately in the appropriate language course or be asked to take a placement test, offered at the start of each semester (see College Calendar for exact dates). Those receiving a sufficiently high grade will fulfill the requirement. The others may do so by completing French 4. Note that French 8 does not count toward the satisfaction of the language requirement.

Students who have satisfied the language requirement can take literature courses conducted entirely in French (Course 20x, 20, 21, 22, 23-24, 25-26); courses in which the readings are in French, but with lectures, discussions, and papers in English (47, 48); and advanced language Course 6.

The student majoring in French will plan her program to include the following: Courses 21 and 22, or 23-24, or 25-26; two of the language courses 11, 12, 13, 14, 16; five one-term literature courses numbered 31-46; a one-term seminar numbered 51 or 52. Students with honor grades may elect Course 59-60, senior thesis.

The program may include additional courses in French literature or in other subjects which vary with the interest of the student. Majors who plan to do graduate work are encouraged to acquire a reading knowledge of Latin or German.

There are two departmental examinations: the Junior French Test (a short-answer examination on literary history, literary terminology, and translation) and the Major Examination (a critical essay on a prepared question and an individual oral *explication de texte*).

LANGUAGE COURSES

All courses except French 8 and French-Spanish 90 are conducted in French.

1-2. Elementary Full-Year Course.

Grammar, reading, composition. Work in the language laboratory is required. Course Chairman: Mrs. Daly. Section I. Mr. Potter. M T W Th F 9. Section II. Mrs. Daly. M T W Th F 10.

2x. Review of Elementary French.

Oral and written review of basic grammar and syntax. Reading in modern literature, oral practice, free composition, translation. Work in the language laboratory is part of the

course. Primarily for students who need further instruction to qualify for the intermediate course. Course Chairman: Professor Greene. Section I. Professor Stanton. M W F 10. Section II. Professor Geen. M W F 11. Section III. Mrs. Daly. M W F 1:10. Section IV. Professor Greene. Tu Th 10:35-11:50.

3. Intermediate Course.

Grammar and syntax. Reading in modern literature, oral practice, free composition, translation. Work in the language laboratory is part of the course. Prerequisite: Course 1-2, Course 2x, or an appropriate score on the placement test. Course Chairman: Professor Geen. Section I. Professor Geen. M W F 10. Section II. Miss Snead. M W F 11. Section III. Mrs. Daly. M W F 12:10. Section IV. Professor Bailey. M W F 1:10. Section V. Miss Pham. Tu Th 9:10-10:25. Section VI. Mr. Potter. Tu Th 10:35-11:50.

3y. Intermediate Course.

The equivalent of Course 3 but given in the Spring Term. Course Chairman: Professor Bailey. Section I. Professor Greene. M W F 10. Section II. Professor Bailey. M W F 11. Section III. Professor Riffaterre. M W F 1:10. Section IV. Miss Pham. Tu Th 10:35-11:50.

4. French through Literary Analysis.

The study of literary texts from Pascal to Rimbaud as a basis for improving the comprehension of written and spoken French. Work in the language laboratory is part of the course. Prerequisite: Course 3 or an appropriate score on the placement test. Course Chairman: Professor Stanton. Section I. Professor Stanton. M W F 10. Section II. Professor Gavronsky. M W F 11. Section III. Professor Greene. M W F 12:10. Section IV. Professor Bailey. M W F 1:10. Section V. Miss Pham. Tu Th 9:10-10:25. Section VI. Miss Snead. Tu Th 10:35-11:50.

4x. French through Literary Analysis.

The equivalent of Course 4 but given in the Autumn Term. Course Chairman: Professor Riffaterre. Section I. Miss Pham. M W F 9. Section II. Professor Riffaterre. M W F 10. Section III. Professor Bailey. M W F 11. Section IV. Professor Stanton. M W F 1:10. Section V. Dr. Terry. Tu Th 10:35-11:50. Section VI. Mr. Potter. Tu Th 1:10-2:25.

6x. Composition and Conversation.

Weekly compositions designed to improve writing skill. Review of grammar and syntax. Pronunciation, recitation, conversations based on selected readings. Work in the language laboratory is part of the course. Prerequisite: Course 4 or a satisfactory score on the placement test. Limited to 15 students. Professor Riffaterre. M W F 12:10.

8. Elementary French: Rapid Reading and Translation.

Intensive study of French grammar and syntax; vocabulary development; readings and translations, prepared and at sight, of texts in the students' areas of specialization. Limited to seniors. No previous knowledge of French required. Professor Geen. M W F 11.

[11. **Advanced French Grammar.** Not given in 1974-75.]

12. History of the French Language.

A study of the distinguishing characteristics of the French language in their relation to literary expression from the Middle Ages to the present. Prerequisite: French 21, 22 or permission of the instructor. Dr. Terry. Th 2:10-4.

13. Advanced Grammar and Composition.

A systematic study of morphology and syntax; translation into French and free composition. Nonmajors may take the course with permission of the instructor. Professor Greene. Tu Th 1:10-2:25.

[14. **Advanced Translation.** Not given in 1974-75.]

16. Advanced Oral French.

Study of spoken French. Practice in pronunciation and intonation through conversation and oral *explications de texte*. Work in the language laboratory is part of the course. Nonmajors may take the course with permission of the instructor. Professor Riffaterre. M W F 10.

French-Spanish 90. Problems in the Teaching of French and Spanish.

Classroom and laboratory materials available to the teacher of French and Spanish; organization of courses; approaches to conversation, grammar, translation, and literature. Primarily for students in the Education Program; others by written permission of the instructor. Mrs. Daly. Tu 2:10-4:00.

LITERATURE COURSES

For nonmajors, courses marked thus **S** will count toward the general college requirement. All Barnard courses are conducted in French except Courses 47, 48, and 70x.

S20. Special Themes in Modern French Literature: The Theatre and Related Dramatic Forms.

Study of scripts for stage, screen, television, and radio, with attention to the general characteristics of dramatic writing and to the special problems posed by the different media. Technical writings will also be considered where appropriate. Critical as well as creative projects will be assigned according to the students' interests and the problems discussed. Mr. Potter. M W F 11.

S20x. Special Themes in Modern French Literature: The Spirit of Tragedy.

Varieties of tragedy, in drama and in fiction, from 1930 to the present, with emphasis on the tragic aspects of Existentialist thought and the notion of the Absurd. Authors to be considered include Anouilh, Beckett, Bernanos, Camus, Cocteau, Genet, Giraudoux, Malraux, Montherlant, Michaux, and Sartre. Dr. Terry. Tu Th 1:10-2:25.

S21, 22. Masterpieces of Literature from the Middle Ages to the Twentieth Century.

An examination of the scope and variety of French literature through analyses of the most significant works and currents from the Middle Ages to the twentieth century. Lectures, discussions and close textual analyses. Autumn Term: Medieval, Renaissance and Classical Literature. Spring Term: the Age of Enlightenment, Romanticism, Realism and Symbolism. Prerequisite: satisfaction of the foreign language requirement in French. French 21 may be taken for credit *without* completion of French 22. Professors Stanton (Autumn Term) and Riffaterre (Spring Term). M W F 11.

S21y. Masterpieces of Literature from the Middle Ages to the Twentieth Century. Part I.

The equivalent of Course 21 but given in Spring Term. Professor Gavronsky. M W F 9.

S22x. Masterpieces of Literature from the Middle Ages to the Twentieth Century. Part II.

The equivalent of Course 22 but given in Autumn Term. Professor Geen. M W F 1:10.

S23-24. The Culture and Institutions of France.

The study of the major cultural and institutional foundations of France from the Middle Ages to the present. Particular attention paid to the play of these forces on the contemporary period. Readings include historical, religious, and literary sources. Prerequisite: satisfaction of the foreign language requirement in French. Professor Gavronsky. M W F 10.

[**S25-26. French Historical Prose.** Not given in 1974-75.]

[**S31. The Middle Ages.** Dr. Terry. Not given in 1974-75.]

532. Renaissance and Classical Prose.

Fictional and non-fictional prose of the sixteenth and seventeenth centuries. Authors will include Rabelais, Marguerite de Navarre, Montaigne, Descartes, Scarron, Pascal, La Rochefoucauld, Mme. de La Fayette, La Bruyère, and Perrault. Prerequisite: Course 21, 22, or 23-24, or 25-26, or permission of the instructor. Professor Stanton. M W F 11.

[**533. Renaissance, Baroque and Classical Poetry.** Not given in 1974-75.]

534x. The French Theatre of the Seventeenth Century.

Corneille, Racine, and Molière. Prerequisite: the same as for French 32. Professor Bailey. M W F 10.

535y. Eighteenth-Century French Fiction.

Varieties of prose fiction, including selections from the works of Lesage, Marivaux, Prévost, Voltaire, Rousseau, Bernardin, Diderot, and Laclos. Prerequisite: the same as for French 32. Professor Geen. M W F 10.

537. Nineteenth-Century French Poetry.

Poetry and Poetics from Romanticism through Symbolism. A study of the language of poetry, with attention to major figures, including Lamartine, Hugo, Nerval, Baudelaire, Verlaine, Rimbaud, and Mallarmé. Professor Riffaterre. M W F 1:10.

[**538. The Nineteenth-Century French Novel.** Professor Bailey. Not given in 1974-75.]

[**539. Twentieth-Century French Theatre.** Professor Geen. Not given in 1974-75.]

[**540. Twentieth-Century French Fiction.** Professor Shroder. Not given in 1974-75.]

541. Twentieth-Century French Thought.

An analysis of the definitions of language, revolution, and science in some of the major texts from Surrealism to Structuralism. Readings will include the works of Breton, Aragon, Sartre, Camus, Barthes, and Lévi-Strauss. Prerequisite: the same as for French 32. Professor Gavronsky. M W F 11.

542. Twentieth-Century French Poetry.

Poetry as thought, art, and language, from post-Symbolism through the nineteen-sixties. Readings in Valéry, Claudel, Apollinaire, Jacob, Reverdy, Supervielle, Breton, Eluard, Ponge, Michaux, Bonnefoy, Césaire, Vilморin, and others. Prerequisite: the same as for French 32. Professor Greene. M W F 1:10.

[**543. French Women Writers.** Professor Greene. Not given in 1974-75.]

[**544. Materials and Techniques of French Poetry.** Professor Greene. Not given in 1974-75.]

[**546. Autobiography.** Professor Shroder. Not given in 1974-75.]

547. Flaubert and Joyce.

Selected works of the two "novelist's novelists," considered in terms of the problems of modern fiction: the growth and transformation of the novel, the aesthetics of realism and symbolism, and the effort to fuse substance and style. Readings in French and English; lectures, discussions, and papers in English. Prerequisite: satisfaction of the foreign language requirement in French. Professor Shroder. Tu Th 10:35-11:50.

548. Shakespeare in France.

A study of Shakespeare's image and influence in France through criticism, translations, adaptations, and imitations, with emphasis on **Hamlet**, **Othello**, and **Macbeth**. Authors include Voltaire, Vigny, Stendhal, Hugo, Flaubert, Baudelaire, Mallarmé, Laforgue, Gide, Ionesco, and Bonnefoy. Readings in French; lectures, discussions, and papers in English. Prerequisite: satisfaction of the foreign language requirement in French. Professor Bailey. M W F 10.

SEMINARS

The number of students in each seminar is limited and written permission is required in advance of registration period.

51. Montaigne, Descartes, Pascal.

Professor Greene. W 2:10-4.

52. Realism and Naturalism.

Professor Shroder. W 2:10-4.

59-60. Senior Thesis.

Research into a precise topic of French literature and the preparation of a long essay. Open to seniors with honor grades. Students electing Course 59-60 take three one-term literature courses numbered 31-44 and one seminar; they are excused from the written major examination, and the thesis defense constitutes the oral section. Course 59 or 60 may be taken alone with special permission. Members of the department. Hours for consultation to be arranged.

FRENCH LITERATURE IN TRANSLATION

70x. The Philosophical Tradition.

Writings of French philosophers and moralists, from the late Renaissance to the mid-twentieth century. Authors to be considered include Montaigne, Descartes, Pascal, Rousseau, Diderot, Michelet, Taine, Bergson, Sartre, and Foucault. A knowledge of French is not required. Professor Shroder. Tu Th 9:10-10:25.

GRADUATE COURSES

The following graduate courses are given in English by members of the Barnard French Department. They are open to undergraduates only by written permission of the instructor. French majors may take them in addition to, but not in lieu of, the five literature courses and the seminar as set forth in the major requirements.

[G4501x. **French Literature of the Nineteenth Century: the Novel.** Professor Schroder. Not given in 1974-75.]

[G4603x. **French Poetry in the Twentieth Century.** Professor Breunig. Not given in 1974-75.]

G6507y. **Nineteenth-Century French Literary Theory and Criticism.** Professor Shroder. W 10-11:50.

[G6705x. **The Aesthetics of Modern Fiction.** Professor Shroder. Not given in 1974-75.]

STUDY ABROAD

Conducted at Reid Hall in Paris. Professor Danielle Haase-Dubosc, Director of Studies. For further information, consult the Chairman of the Barnard French Department.

INTERMEDIATE INSTITUTE

Open to students, except Freshmen, who have completed first-year French or its equivalent.

AUTUMN (15 weeks, September 5 – December 11)

H1201p. Intermediate Course, first half.

Strong emphasis on the spoken language; pronunciation, oral-aural drill. Reading of contemporary texts. Inductive study of grammar. Professor Haase-Dubosc and instructor to be announced. M Tu W Th F 9-10, 10:30-12 and Tu W Th 2-3, for four weeks.

French

H1202q. Intermediate Course, second half.

Continued emphasis on spoken French; increased emphasis on reading and composition. Professor Haase-Dubosc and instructor to be announced. M Tu W F 9-10, for eleven weeks.

H3335q. Masterpieces of French Literature.

Analysis and discussion of major works of Medieval, Renaissance, and Classical literature. Instructor to be announced. M Tu Th F 11-12, for eleven weeks.

H3445q. French Civilization and Culture, I.

French art and architecture, illustrating the periods approached through literature in H3335. Mr. Philippe Sers. M Tu W Th 2-3 and additional hours to be arranged, for eleven weeks. Fee \$25.

ADVANCED INSTITUTES

Open to students who have completed French 21, 22 or its equivalent.

AUTUMN (15 weeks, September 5 – December 11)

H3442p. Advanced Composition and Explication.

A study of morphology and syntax. Readings from H3602 are used for analysis and *explication de texte* as well as for intensive training in composition. Professor Haase-Dubosc. M Tu W Th F 9-10:15, for seven weeks.

H3446x. French Civilization and Culture, II.

France since World War II and its particular sense of its own past – art, theatre, film, education, politics. Coordinated with H3602. Mr. Jacques Lecarme. Tu W Th 2-3 and additional hours to be arranged. Fee \$25.

H3602x. Contemporary French Literature.

Tradition and innovation in poetry, fiction, and theatre; the disappearing orders and the new structures; criticism as a form of literature. Major trends in the evolution of French thought since 1945, as illustrated in works of Sartre, Genet, Ionesco, Beckett, Robbe-Grillet, Butor, Barthes, Goldmann, and others. Professor Haase-Dubosc. M Tu Th F 11-12.

H3604q. Seminar on Contemporary France.

An introductory investigation of some of the new critical methods being developed in France. Instructor to be announced. M Tu Th F 9-10:15 for eight weeks.

SPRING (15 weeks, February 3 – May 16)

H3442y. Advanced Composition and Explication.

A study of morphology and syntax. Readings from H3602 are used for analysis and *explication de texte* as well as for intensive training in composition. Professor Haase-Dubosc. M Tu Th F 9-10.

H3446y. French Civilization and Culture, II.

The equivalent of H3446x, given in the Spring Term, as above. Fee \$25.

H3602y. Contemporary French Literature.

The equivalent of H3602x, given in the Spring Term, as above.

H3606y. Supervised Study in France.

Special study in the French system, normally in the student's major field, under the supervision of the Institute staff. Courses may be selected from the offerings of the various Paris universities as well as the *Institut d'Etudes Politiques*, the *Ecole du Louvre*, and others. These courses should, where appropriate, include participation in the indicated supplementary *cours de travaux pratiques*.

THE JUNIOR YEAR IN PARIS

The two courses listed below constitute a full year's program, primarily for juniors sufficiently advanced in French and in their majors (should the major not be French) to be able to profit from the program and particularly from the tutorial (V3997-V3998), in which a thesis is normally written under the direction of a French expert on the student's particular area of interest.

V3991x-V3992y. Supervised Study in France.

Special study under the supervision of the Director of Studies of Reid Hall in Paris. This normally involves work in an individually arranged program, in courses in the various Paris universities, the *Institut d'Etudes Politiques*, the *Ecole du Louvre*, and others. Permission of the major adviser and the Chairman of the Barnard French Department required.

V3997x-V3998y. Supervised Research in France.

Normally this course is open to students only in consultation with and under the supervision of the Director of Studies of Reid Hall in Paris and involves individual work with an established specialist in the student's major field. Permission of the major adviser and the Chairman of the Barnard French Department required.



Geography

Professor

Leonard Zobler (Chairman; 334 Milbank Hall)

Assistant Professor

Toby Berger

Instructor

Garrett A. Smith, Jr.

Associate

Beverly Moss Spatt

Other officers of the University offering courses listed below:

Professors

William A. Hance, Kempton E. Webb

Associate Professor

Robert A. Lewis

Assistant Professors

Barry N. Boots, Colin High

Lecturers

Stephen Gale, Miklos Pinther

Preceptor

Suzanne Ternes

GEOGRAPHY

The special point of view of Geography is that it integrates the social, biological, and earth sciences into a human ecology of habitat areas in which activities interact with each other and with nature, forming unique regions. The student of Geography thus acquires a holistic perspective of the earth and its parts that extends beyond the experiences of her own place and time. Some specific questions that Geography seeks to answer are: Why do cities locate where they do, grow to certain sizes and develop internal structures that perform unique functions? How do cities and their hinterlands relate to each other and to other city-hinterland units forming a system of cities? How serious a threat are resource depletion and environmental deterioration to the survival of human culture? Do third world countries face the same problems of resource exhaustion and pollution in their efforts to attain higher living standards as the United States? Can humans evolve an affluent world urban-industrial society that does not upset the global balance?

In pursuit of the answers to these questions, and to others, geographers examine the behavior of man-environment spatial systems at different times and in different places. An understanding of the dynamics of the interactions among human behavioral patterns, resources, technology, and space suggests ways for anticipating and ameliorating contemporary environmental problems and planning for the future. Geographers thus are involved deeply in regional and urban planning, and resource management in both developed and underdeveloped regions.

A knowledge of earth science and social science is an essential part of geographic training. Geography 1, 2, 3, 4, and a year seminar (59, 60) are required. During the seminar a senior essay is prepared, usually based on original field research. The remainder of the major is tailored to the student's interests, which usually are along one of the following paths: natural resources, specialization in a region, as Africa, Latin America, U.S.S.R., or Anglo-America, or a substantive field as urban geography, agriculture, manufacturing, location theory, cartography, or environmental geography.

In the place of a major examination each student in the senior seminar (59, 60) will prepare an essay.

ENVIRONMENTAL CONSERVATION AND MANAGEMENT

Conservation is concerned with man's stewardship of the earth as his home and the proper management of its resources. The particulars of this program will be found on pages 84-85.

GEOGRAPHY

1, 2. Environmental Science.

The natural environment of man viewed as the fusion of spatially interacting processes, flows, cycles, and forms occurring close to or on the earth's surface. Environmental system modifications and deteriorations caused by the pressures of urbanism, technology, and population. Autumn Term: description of natural equilibria in the atmosphere, hydrosphere, pedosphere, and lithosphere, and their vulnerabilities to disturbances induced by the pressures of human activities. Remedial measures and conservation issues. Spring Term: classification and location of the earth's major biomes according to the unique aspects of their ecosystems. Examination of pristine and altered environments. The natural resources using agricultural, energy, and mineral systems of urban-industrial society and their degenerative feedback effects, and planning for environmental stability. This course satisfies the basic science requirement. Permission for lecture and laboratory assignment required. Professors Berger, High and Zabler. Lec. Section I. M W 12:10; Section II. Tu Th 11. Lab. M 2:10-5, Tu 9-11:50, 2:10-5, W 2:10-5, Th 2:10-5.

53. Agricultural Development and Agrarian Societies.

An ecologic and economic review of world agriculture and associated rural institutions according to natural biomes. Differential roles of culture, land, labor, and capital in regional and intra-regional productivity and locational patterns. The changing role of agriculture in an industrializing world. Special attention will be given to population and food supply, land reforms and agricultural policy, rural-urban migration, economic growth, conservation. Case study reports. Mrs. Ternes. M W 1:10, plus tutorials and two field trips with reports.

54. Ecology of Urban-Industrial Society.

The geographic and technologic correlates of urban-industrial society. The restructuring of an agrarian economy under the impact of the industrializing process. Rural-urban population flows, raw material inputs, manufactural and transport patterns, regional growth and world urbanization, city structure and central place systems, and environmental change viewed as elements in an industrial ecosystem. Two field trips and reports. Mr. Smith. Tu Th 2:10-3. Field trip fees approximately \$10.

[17. Cartography. Not given in 1974-75.]

30. Environmental Policy.

Development and implementation of policies at federal, state, and local levels to attain environmental and planning objectives. Formal and informal methods of resolving conflicts over ecologic issues, and the management of technology. Including citizen participation and impact studies. The political geography of land and space management. Case study reports. Permission of Barnard Chairman required to register. Mrs. Spatt. F 12:10-2, plus tutorials.

[32. Land Use and Transportation. Not given in 1974-75.]

33. Environmental Planning and Perception.

Introduction to planning theory and practice with an emphasis on the environmental

Geography

quality of the core cities and surrounding suburbs of metropolitan areas. Special topics include housing, waste disposal, open space, neighborhoods, and citizen participation and confrontation. Examples taken from New York City and new towns. Permission of the Barnard Chairman required. Mrs. Spatt. W 1:10-3, plus tutorials.

35. The New York Metropolitan Region.

The transformation of the tri-state area from a natural landscape into an urban metropolis. Contemporary geographic anatomy of the metropolitan region; core city, satellite city, and suburban inter-relations. Internal locational patterns of industrial, commercial, residential, and open space land uses. Intra-regional traffic flows. Public infrastructural facilities. Subregions of specialized activities and communities. Mr. Smith, F 2:10-4, plus field trips to be arranged. Field trip fees approximately \$10.

46. Environmental Monitoring.

Introduction to environmental monitoring, instrumentation, and principles. Design of surveillance networks, including field sampling, raw data acquisition, laboratory analysis, data processing, and storage. Each student is required to set up and carry out a field problem to gain on-hand experience and to prepare an "impact statement" report. Permission of the instructor required. Professor Berger. M 2:10-4, plus additional project hours to be arranged.

W4011x. Pedology and Soil Resources.

Introduction to the biogeochemistry of soils and their genesis, morphology, and classification. The ecology, management, and conservation of soils for agricultural and urban uses. Land and soil distribution and mapping to prepare data banks for planning at various geographic scales, using on-site, air photo, and remote sensing methods. Professor Zobler. Tu Th 3:10. Lab. Tu or Th 4:10-5. Two field trips.

[W4012x. Hydrology and Water Resources. Not given in 1974-75]

W4014y. Conservation Theory and Environmental Management.

A geographic evaluation of contemporary environmental issues as the interplay of technologic, economic, historical, political, perceptual, and ethical factors. A review of man-environment models and their growth implications. Current planning practices and emerging trends in the allocation of land use and natural resources and in waste control. Case studies and impact statement reviews. Professor Zobler. Tu Th 3:10-4.

C3019x. Problems of Developed and Underdeveloped Areas.

Introduction to the theory and methodology of economic and regional geography through the analysis of problems of developed (Western European) and underdeveloped (African) areas. Topics include: population, resources, infrastructural and sectoral studies, regional development, integration and disintegration, and urban problems. Professor Hance. M W 11-12:15.

[C3501y. Africa. Professor Hance. Not given in 1974-75.]

W3020x. Economic Geography.

An introduction to the study of the economic factors in locational decisions and their relationships to the distribution of world resources and industries. This course will be directed to students who desire a survey of the systematic relationships between economic and spatial distributions, with an emphasis on pertinent economic and geographic theory. Dr. Gale. M 2:10-4 and third hour to be arranged.

W3071x-W3072y. Quantitative Techniques in Geography.

Theory and techniques of measuring geographic distributions. Descriptive and analytical methods (regression, factor analysis) useful in dealing with areal associations and interactions. Introduction to "packaged" programs useful for displaying and analyzing spatial patterns (including Symap and Trend Surface). Additional selected programs

(point pattern analyses, frequency distributions, and taxonomic procedures. Professor Boots. Tu Th 11-12:15.

W4018y. Cartography.

The use of maps for illustrative and statistical purposes, as point, line, and area symbols, and for geographic analysis. A survey of photogrammetry and remote sensing and of modern map production methods. Experience in cartographic drafting, compilation, design, and evaluation. Use of aerial photographs in mapping and as map supplements. Permission of the instructor required. Mr. Pinther. F 1:10. Lab. 2:10-4.

W4002y. World Energy Perspectives.

A survey of the world's energy position and the spatial patterns and trends of energy resources in terms of their occurrence, production, and consumption; implications viewed from economic, social, and political points of view. Professor Hance. Tu 4:10-6.

[W4025y. General Climatology. Not given in 1974-75.]

W4030x. Cultural Geography.

The concept of culture applied to geographic problems. Man viewed as the ecological dominant whose cultural imprint upon the earth's surface may be analyzed as the result of cultural, economic, and physical processes interacting through time. Readings in related fields and some interpretation of air photographs. Professor Webb. Th 2:10-4.

W4041y. Urban Geography.

Geographic aspects of urbanization; contemporary theories of the economic, social, and spatial structure of cities evaluated in terms of their application to existing patterns. Professor Boots. Tu 2:10-4.

W4050x. Population Geography.

Emphasis on concepts pertaining to population change and their relationship to geographic problems. Topics include population policy, population growth, fertility, mortality, migration, select population characteristics, and food and resource problems related to population growth. The impact of population change on society. Professor Lewis. M 11-12:50.

W4201x. Latin America.

Physical and cultural geography of Latin America. Systematic treatment of physical resource bases, pre- and post-Columbian landscapes, land use and tenure systems, spread of settlement, agriculture and industry, regional variations of resource definition and political influence, migration and regional development schemes. Evaluations and projections focus upon current problems of the environment, urban growth, and population. Professor Webb. W 2:10-4.

W4401x. Economic and Population Geography of the USSR.

Emphasis on population change and its relationship to the economic geography of the USSR. Topics include the natural environment, resources, the distribution of economic activity, population growth, fertility, mortality, migration, urbanization, ethnic composition, and work force. The impact of population change on Soviet society. Professor Lewis. Tu 11-12:50.

59, 60. Seminar in Geography.

Readings, discussions, and reports on various topics from the research literature. Preparation of the senior essay. Required of senior majors. Professor Zobler. Hours to be arranged.

GRADUATE COURSES

Certain graduate courses given in the University and Teachers College are open to qualified majors with the consent of the major adviser. These courses are described in the Bulletins of the Graduate School of Arts and Sciences and Teachers College.

Geology

Professor

John E. Sanders (Chairman: 328B Milbank Hall)

Other officers of the University offering courses listed below:

Professors

Roger L. Batten, Wallace S. Broecker, Ian Dalziel, Rhodes W. Fairbridge, Ralph J. Holmes, John Kuo, John E. Nafe

Associate Professors

Arnold L. Gordon, James D. Hays, Bruce C. Heezen, William I. Ridley

Assistant Professors

Robert Kay, Richard A. Schweickert, David L. Campbell (Mining), H. James Simpson

Adjunct Associate Professor

Richard C. J. Somerville

Lecturers

Vivien Gornitz, Dennis E. Hayes

GEOLOGY

Geology deals with the study of the earth, applying various aspects of all modern sciences, especially chemistry, physics, and biology. The central theme of geology involves the many interwoven reactions which constitute the geologic cycle. The geologic cycle results from the effects of solar energy on the earth and on the organisms inhabiting the earth. In addition, the cycle depends on internal energy from the earth itself, which powers various igneous and tectonic processes. Geology is concerned with an understanding of how the operations of the geologic cycle in various environments through time have shaped the earth's surface and have created the geologic record. In the geologic record are preserved a decipherable history of past environments and of the progression, through time, of the populations of organisms that have inhabited the earth. A pressing modern concern of geology deals with the interactions between man's technologic cycle and the natural geologic cycle.

The first year of study may be selected from among three sequences: (1) a broad, general introductory course (V1021x, V1022y), (2) an introductory course emphasizing ocean science (V1031x) and planetary geology (V1032x), or (3) an introductory course emphasizing man's physical environment (V1041x). A year's work satisfactorily completed in any of the sequences fulfills the laboratory science requirement. With permission of the department a student may enter advanced courses in geology after completing one of these sequences.

Students having extensive preparation in mathematics, physics, and chemistry who desire to apply these disciplines to the study of the earth should enroll in V1051x and V1052y.

Major programs include three options: Option A: pre-professional preparation in non-biologic aspects of geology; Option B: pre-professional preparation in biologic aspects of geology; Option C: Earth Science major, including selected fields of study within geology and physical geography. Geologic concentration in problems of the coastal zone is also possible in Barnard's interdepartmental program on Environmental Conservation and Management.

Students electing any of the major options will take a sequence of courses which will be worked out in consultation with their major adviser. Majors in geology should plan to spend at least one summer in geologic mapping at an approved geologic field camp, in research activities at an oceanographic institution, or as a participant in an approved field research program being carried out elsewhere.

There is no major examination, but a satisfactory research paper prepared in conjunction with a senior seminar is required. Students contemplating graduate study in geology should plan their programs to include a reading knowledge of two modern foreign languages (German, French or Russian generally), and a year course in chemistry, physics, and mathematics (including calculus for students choosing major Option A, and statistics for major Option B).

ENVIRONMENTAL CONSERVATION AND MANAGEMENT

Conservation is concerned with man's stewardship of the earth as his home and the proper management of its resources. Students in the interdepartmental program in Environmental Conservation and Management who desire to concentrate in coastal studies are required to take as electives Geology W4226y, 48, and TK 4802 (Teachers College), and to carry out their research in some coastal project. The core courses and further particulars of the program are found on pages 84-85.

V1021x. Physical Geology.

The composition and structure of the earth, the internal and external forces acting upon it, and the surface features resulting. Laboratory includes study of common rocks and minerals, of contour maps as means of depicting the earth's morphology, and of geologic maps to infer the subsurface structure of the earth's crust, and three required field trips to local geologic features: Fire Island (Sept. 14 or 15), Edgewater, N.J. (Oct. 11, 12, or 13), and Fort Tryon Park (Oct. 18, 19, or 20). Professor Sanders and staff. Lec. M W F 10. Lab. (3 hours) M 2:10-5; Tu 9-11:50, 2:10-5; W 2:10-5; Th 9-11:50, 2:10-5.

V1022y. Historical Geology.

The history of the earth and of the life upon it from the beginning to modern times. The laboratory and assigned work include study of invertebrate fossils and of geologic maps and structures, museum trips, short field trips, and a required one-day field trip to Catskill, N.Y. (Apr. 25, 26, or 27). A research paper on a geologic topic is due on April 21. Prerequisite: V1021x. Professor Sanders and staff. Lec. M W F 10. Lab. (3 hours) M 2:10-5; Tu 9-11:50, 2:10-5; W 2:10-5; Th 9-11:50, 2:10-5.

V1031y. Ocean Science.

The ocean basins as geological features, the recent exciting research in continental drift and the origin of ocean basins, ocean water as a life-support system and the role of circulation and nutrient supply, and man's influence on the ocean. Laboratories deal with some of the current techniques used in ocean research. Recommended preparation: high school physics, chemistry and mathematics. Professor Hays. Lec. Tu Th 9. Lab. hours to be arranged.

V1032x. Planetary Geology.

New perspectives on the earth derived from recent observations of the Moon, Mars, Venus, and meteorites. Evolution of the morphologies and atmosphere of these objects. Bearing of new data on some long-accepted views of earth history. Likelihood that intelligent life exists elsewhere in our galaxy. Recommended preparation: some background in high school physics, chemistry and mathematics. Dr. Gornitz. Lec. M 9-10:50, W 10. Lab. hours to be arranged.

V1041x. Man's Physical Environment.

Processes taking place in the earth's lithosphere, hydrosphere and atmosphere which bear on man's attempt to cope with his environment. Topics such as pollution control, weather modification and earthquake prediction will be considered. Recommended preparation: some background in high school physics, chemistry and mathematics. Professor Broecker. Lec. M W 6:10-7:25. Lab. hours to be arranged.

Geology

V1051x. Principles of Geology, I.

Materials, forms, structures and processes that occur at the earth's surface. Development of the earth's surface in time. Geology as a factor in determining man's physical environment. Occasional lectures by research scientists on subjects of current interest. Prerequisite: high school chemistry, physics and mathematics. Corequisite: a term of physics or chemistry. This course is prerequisite for advanced undergraduate geology courses. To be taken together with Geology V1052 in either order, with permission of the instructor. Professor Nafe. Lec. Tu Th 4:10. One 2-hour laboratory-conference a week and field trips to be arranged. Field trip fees \$10.

V1052y. Principles of Geology, II.

Materials, forms, structures and processes that occur within the earth. Endogenetic processes that governed the earth's development in time. Reaction rates and equilibria within the earth's crust. Occasional lectures by research scientists on subjects of current interest. Prerequisite: high school chemistry, physics and mathematics. Corequisite: a term of physics or chemistry. Professor Nafe. Lec. Tu Th 4:10. One 2-hour laboratory-conference period a week and field trips to be arranged.

W4411y. Principles of Structural Geology.

Analysis of geologic deformation based upon the principles of mechanics and utilizing research data from laboratory and field investigations. Methods in structural analysis. The mechanics of deformable bodies, fracture and faulting, the brittle-ductile transition in rocks, flow and folding. Selected readings. Prerequisite: V1051x, V1052y or equivalent. Professor Dalziel. Lec. Tu Th 9. Lab. Th 2:10-5. Field work to be arranged.

W4941x. Principles of Geophysics.

The structure of the earth as inferred from geophysical investigation. Principles of measurement and interpretation. Gravity, isostasy, earthquake seismology, refraction and methods, geomagnetism, marine geophysics. Prerequisite: calculus through Mathematics C1202 and physics through Physics C1007. Professor Nafe. Tu Th 2:10-3:30.

V3522y. Exploration Geology and Mining Geophysics, I.

The geological environment of mineral deposits and their structural control. Ore genetical principles as a guide to mineral deposits. Geochemical and geophysical anomalies related to mineral deposits, their detection and interpretation. Prerequisite: V1051x, V1052y. Professor Kuo and instructor to be announced. M W F 10.

W4008x. Introduction to Atmospheric Science.

Observational data concerning the atmosphere; radiative, convective and turbulent processes; equations of motion of geophysical fluid dynamics; general circulation and thermal structure of the atmosphere; physics and dynamics of clouds; meteorological satellite and new observation systems. Professor Somerville. M W 9-10:30.

W4113x. Elements of Mineralogy and Crystallography, Nonsilicates and Ore Minerals.

Crystallography, including principles of symmetry, internal structure of crystals, coordination, bonding, and external crystal form. Physical properties, occurrence, mode of origin, and the economic and geologic significance of the ore minerals and the nonsilicates. Application of physical properties and chemical tests in the recognition of minerals. Given in sequence with W4114y. Prerequisite: V1051x, V1052y, and elementary college physics, and chemistry, or permission of the instructor. Professor Holmes. Lec. Tu Th 11. Lab. Tu 1:10-4.

W4114y. Elements of Mineralogy and Crystallography, Silicates and Rock-Forming Minerals.

Physical properties, occurrence, mode of origin and geologic significance of the more important silicates and other rock-forming minerals. Application of physical properties and chemical tests in the recognition of minerals. Given in sequence with W4113.

Prerequisite: W4113x, or permission of the instructor. Professor Holmes. Lec. Tu Th 11. Lab. Tu 1:10-4.

W4120y. Analytical Mineralogic Techniques.

Analytical methods for mineral identification and study, including the polarizing petrographic microscope, the reflecting polarizing microscope, x-ray diffraction (both powder and single crystal methods), x-ray fluorescence, and differential thermal analysis. Prerequisite: W4113x and W4114y or equivalent. Professor Holmes. Lec. Tu Th 10. Lab. Th 1:10-4.

W4327x. Principles of Geomorphology.

Lectures, map study, and readings on geomorphic principles. The origin of surface features of the earth as controlled by the interaction between geologic structures and erosional processes. Prerequisite: one year of geology or permission of the instructor. Professor Fairbridge. Lec. M W F 1:10. Lab. W 3:10-5.

W4009x. Chemical Geology.

Thermodynamics as applied to earth systems, x-ray theory as applied to mineral structure determination and to elemental analysis, nuclear theory as applied to radio activity monitoring and age dating. Professor Broecker. Tu Th 4:10-6.

W4883x. Principles of Geochemistry.

Introduction to the origin of the chemical elements; processes responsible for the chemical make-up of the solar system and the earth; geochemical cycles presently operating in the earth's atmosphere, hydrosphere, and lithosphere. Professor Kay. M W F 9.

Biology-Geology W4661x. Introduction to Paleontology.

A systematic survey of the morphology, ecology, taxonomy, and geologic history of groups of invertebrate animals commonly found as fossils. Prerequisite: V1021 and V1022, or permission of the instructor. Professors Batten and Hays. Lec. M W 11. Lab. F 2:10-4.

W4201x. Principles of Sedimentation.

Sedimentary particles and the processes by which these particles originate, are transported, and are deposited. Primary sedimentary structures. Conversion of sediments to sedimentary rocks. Interpretation of sedimentary rocks. Laboratory studies emphasize microscopic study of sediments and sedimentary rocks, and megascopic study of primary sedimentary structures. Permission of the instructor required. Professor Sanders. Lec. M W 2:10. Lab. 3 hours to be individually arranged.

W4221x. Principles of Stratigraphy.

Historical and philosophical foundations of geology. Principles of classification and correlation, emphasizing applications to paleogeographic and paleotectonic reconstructions. Evaluation of geosynclines in terms of plate-tectonic theory. Prerequisite: W4701, Biology-Geology W4661, or permission of the instructor. Professor Schweickert. Lec. M W F 9. Lab. M 2:10 and additional hours to be arranged.

W4226y. Continental Shelf Sedimentology.

Theory and techniques of modern marine sedimentology, including processes associated with deposition and diagenesis. Prerequisite: W4113x, W4114y, Biology-Geology W4661x, and one term of college chemistry. Professor Sanders. Lec. M W 2:10. Lab. W 3:10-5, and one-day field trips. Estimated expenses: \$10.

W4948y. The Ocean Floor.

The morphology, structure, and history of the ocean floor, with emphasis on the tectonic and sedimentary processes involved in its evolution. Professor Heezen. M W 11-12:50.

Geology

W4701y. Introduction to Petrology.

The classification and genesis of igneous, sedimentary, and metamorphic rocks. The major rock types will be examined in hand specimens and under the microscope. Prerequisite: V1051x, V1052y and elementary knowledge of physics and chemistry. Professor Ridley. Lec. Tu Th 5:10. Lab. 2 hours to be arranged.

W4927x. Principles of Oceanography.

Properties of sea water; water masses and their distribution; sea-air interaction influence on the ocean structure; basic oceanic circulation pattern; relation of diffusion and advection with respect to distribution of ocean properties; measurement techniques and methods of data processing and analysis. Factors controlling the average concentration and distribution of dissolved chemical species within the sea. Recommended preparation: a sound background in mathematics, physics, and chemistry. Professors Gordon and Simpson. Tu Th 6:30-8.

48. Coastal Zone Management.

Geologic, physical, biologic, and climatic factors in origin and present dynamics of various kinds of coast, with emphasis on the coasts in the New York area; mankind's use of coastal zones; problems in management; and governmental and private programs. Lectures, readings, discussions, outside speakers, individual research projects leading to a term paper, and at least four field trips. Prerequisite: Geography 1, 2; or Geology V1021x, V1022y; or the equivalent. Professor Sanders. Hours to be arranged.

60. Seminar in Geology.

A seminar course with discussions, problems, and readings on various problems in geology. Prerequisite: a year of geology. Required of senior majors. Professor Sanders. Hours to be arranged.

COLUMBIA COURSES

The following courses, listed by subdivisions of the Columbia Department of Geology, are open to qualified students with the permission of the Barnard chairman. Courses in brackets are given only in alternate years, and will not be given in 1974-75.

TERRESTRIAL AND MARINE GEOLOGY

W4049y. World Regional Geology.

W4053x. Geology of the New York Region.

W4222y. Phanerozoic Stratigraphy of North America.

TK4802. (Teachers College). Coastal Oceanography.

[W4662. Biostratigraphy.]

[W4928. Submarine Geology.]

SOLID EARTH GEOPHYSICS AND PLANETARY SCIENCE

[V3902. Introduction to Geophysics.]

W4415x. Principles of Rock Deformation.

W4521x. Exploration and Mining Geophysics, II.

W4901x. Paleomagnetism.

W4915y. Terrestrial Planets and the Moon.

W4942y. Geophysical Methods.

W4945x. Geophysical Theory, I.

W4946y. Geophysical Theory, II.

OCEANS AND ATMOSPHERES

W4030y. Climatic Change.

W4885x. The Chemistry of Continental Waters and Air.

W3000x or y. Tutorial Study in the Earth Sciences.

Professor

Brigitte L. Bradley (Chairman; 320B Milbank Hall)

Associate Professor

Gertrud M. Sakrawa

Assistant Professor

Frederick G. Peters

Instructors

Regina Ayre, Elisabeth McLaughlin

The courses in the German Department are designed to develop proficiency in all the language skills and to present the cultural and literary traditions of the German-speaking countries.

Students who intend to continue the study of the German language will be placed in the appropriate courses on the basis of their CEEB scores or, if such are not available, on the basis of a placement test taken before registration. The language requirement is fulfilled by the completion of German 4 or 4x. New students who have already demonstrated competence in German may enroll in any of the advanced courses.

The literature courses taught in German are open to all students who have completed German 4, 4x, or the equivalent. There are no prerequisites for the literature courses in translation.

A student majoring in German will plan her program to include German 5 (or the equivalent) and eight literature courses conducted in German, one of which is to be a colloquium. The major examination consists of a three-hour written section (in English) and of an individual oral examination of a half hour (in German). With special permission a student may submit a senior essay (Course 62) in place of the written section.

Students who elect German as part of a combined major will work out their special program in consultation with the departments concerned. Their German program will include six literature courses conducted in German.

LANGUAGE COURSES

1-2. Elementary Full-Year Course.

Elements of grammar, easy reading, written and oral practice. Five class meetings a week are required and may be chosen as follows: Section I. (Autumn) Mrs. Ayre. (Spring) Professor Sakrawa. M W F 9. Section II. Mrs. McLaughlin. M W F 12:10. In addition each student must register in the Department for one of the following sections: Section I. Tu Th 9. Section II. Tu Th 11.

1y. Elementary Full-Year Course. Part I.

Same as Course 1, but given in the Spring Term. Mrs. Ayre. M Tu W Th F 9.

2x. Elementary Full-Year Course. Part II.

Same as Course 2, but given in the Autumn Term. Professor Sakrawa. M Tu W Th F 9.

3. Intermediate Course.

Close reading and rapid reading, grammar review, practice in speaking and writing. Section I. Professor Bradley. M W F 10. Section II. Professor Sakrawa. M W F 1:10.

3y. Intermediate Course.

Same as Course 3, but given in the Spring Term. Professor Sakrawa. M W F 1:10.

4. Literary Appreciation.

Study of German based on a variety of readings. Stylistic analysis. Practice in speaking and writing. Section I. Professor Bradley. M W F 10. Section II. Mrs. McLaughlin. M W F 1:10.

4x. Literary Appreciation.

Same as Course 4, but given in the Autumn Term. Mrs. Ayre. M W F 10.

5. Advanced Oral German and Composition.

A variety of short readings as a point of departure for discussions and stylistic exercises. Emphasis on idiomatic usage and syntactical structures in order to develop fluency in speaking and proficiency in writing. Mrs. McLaughlin. M W F 1:10.

7, 8. Elementary German: Reading and Translation.

Autumn: Introduction to the comprehension and translation of German into English. Recognition of structures and vocabulary. Spring: Translation of original texts from various fields such as art history, science, philosophy, cultural criticism. Classes are conducted in English. The courses may not be used to fulfill the language requirement. No previous knowledge of German required. Professor Peters. M W F 10.

LITERATURE COURSES

For nonmajors, courses marked thus **S** will count toward the general college requirement. All courses are conducted in German except Courses 50, 55y, and 56x. Prerequisites for courses taught in German: Course 4, 4x, or the equivalent. All examinations are written in English. Students may write their papers in German or English.

[**§11. Studies in German Literature.** Professor Bradley. Not given in 1974-75.]

[**§14. German Literature at the Turn of the Twentieth Century.** Professor Bradley. Not given in 1974-75.]

[**§15. Goethe and Schiller.** Professor Sakrawa. Not given in 1974-75.]

§16. German Romanticism.

The Romantic Movement in Germany and its influence abroad. Aesthetic theories and selected works by leading Romanticists: Tieck, Novalis, Hölderlin, E.T.A. Hoffmann, Eichendorff, and others. Professor Sakrawa. Tu Th 10:35-11:50.

[**§25. Great German Dramatists and Theaters of the Nineteenth Century.** Professor Sakrawa. Not given in 1974-75.]

[**§26. Modern German Theater.** Professor Bradley. Not given in 1974-75.]

[**§27. Nineteenth-Century Realism in German Prose Fiction.** Professor Sakrawa. Not given in 1974-75.]

§28x. Contemporary German Prose Fiction.

Trends in narrative writing. Analysis of works by authors such as Böll, Johnson, Bachmann, Frisch, Grass, Wolf. Professor Bradley. M W F 11.

[**§32. German Poetry in Our Century.** Professor Bradley. Not given in 1974-75.]

§36x. Goethe's Faust.

An intensive study of Goethe's Faust, Parts I and II. Professor Sakrawa. Hours to be arranged.

§45y. Literary Traditions in the Times of the Medieval Empire.

A study of German literary works from the Age of Chivalry to the Age of Humanism with a view to their historical background and with emphasis on the shifts of European imagination and thought. Professor Bradley. M W F 11.

[546. **German Literature in the Eighteenth Century.** Professor Sakrawa. Not given in 1974-75.]

561. Colloquium. Rainer Maria Rilke.

A study of Rilke's poetic and narrative work in connection with the writer's assimilation of European art and culture, and an exploration of his achievements in conveying fundamentals of reality. Professor Bradley. Tu Th 10:35-11:50.

62. Senior Essay.

Senior essay, based on the work of Course 61 or on individual research. Regular consultations with the instructor at hours to be arranged.

GERMAN LITERATURE IN TRANSLATION

50. Kafka and Freud.

A comparative study of Kafka's and Freud's myths and metaphors as embodiments of unconscious conflict as revealed in the trauma of the nuclear family. Freud's theories of dream interpretation as a technique for the analysis of Kafka's literary fantasies of guilt and punishment. Kafka's biography in light of Freud's theories of neurosis and artistic creativity. A knowledge of German is not required. Professor Peters. M W 2:10-3:25.

55y. Masterpieces of German Literature and Thought.

A study of major literary works of the Middle Ages, the Enlightenment, Storm and Stress, Classicism, Romanticism, and 19th century Nihilism. Also, selected readings from Kierkegaard, Nietzsche, and Jung. A knowledge of German is not required. Professor Peters. Tu Th 1:10-2:25.

56x. Modern German Literature.

A study of significant dramatists and novelists of the 20th century, with some consideration given to the influence of Marxism and psychoanalysis. Ibsen, Strindberg, Brecht, Mann, Kafka, Musil, Frisch, and others. A knowledge of German is not required. Professor Peters. Tu Th 1:10-2:25.



Professor

Helen H. Bacon

Associate Professor

Lydia H. Lenaghan (Chairman; 215 Milbank Hall)

Assistant Professor

Ann Cornell Sheffield

Assistant Professor of Byzantine and Modern Greek

Vassilios Christides

Instructor

Elizabeth Leighton

Other officers of the University offering courses listed below:

Professors

William M. Calder III, Henry S. Commager, Jr., Walther Ludwig,¹ Howard N. Porter, Leonardo Tarán

Associate Professors

Coleman H. Benedict, James A. Coulter

Assistant Professors

Roger S. Bagnall, Joseph Solodow, Richard L. Wertis

¹ Absent on leave, 1974-75.

The general objectives toward which the work of the department is directed are a knowledge of the language and an understanding of the literature and civilization of the ancient Greeks and Romans. The emphasis varies in accordance with the student's interests.

A major in Greek: Eight courses in Greek above the elementary course. These must include Greek V3319 or V3320, and either Greek-Latin 61, 62 or Greek G4105x-G4106y.

A major in Latin: Eight courses in Latin above the elementary course. These must include Latin V3319 or V3320, and either Greek-Latin 61, 62 or Latin G4105x-G4106y.

A combined major in Greek and Latin may be arranged for qualified students on consultation with the major adviser.

For the major in Ancient Studies see page 42.

Students who complete Greek or Latin V3998x or y with distinction, and whose other work in the major is of sufficiently high quality, will be eligible for the degree with honors.

Other fields: Courses in ancient art, archaeology, history, philosophy, religion, other languages, and linguistics are strongly recommended.

Barnard College participates in the program of the Intercollegiate Center for Classical Studies in Rome. Students who have completed at least four semesters of Latin above the elementary course, and at least one semester of elementary Greek, are eligible to apply for admission to the program of the Rome Center for one or two semesters, preferably in the junior year. Courses taken at the Rome Center may be counted toward the major and, in some cases, toward the fulfillment of the general requirements.

Barnard College is a Supporting Institution of the American School of Classical Studies at Athens and the American Academy in Rome, and certain privileges of those schools are open, without fee, to graduates of the College.

Foreign Language Requirement for the Degree: Students may fulfill the foreign language requirement in Greek or Latin either by completing Greek 11, 12 or Latin 3, 4, or one semester above Greek 12 or Latin 4; or by passing an exemption examination with a sufficiently high grade. This examination tests the student's knowledge of grammar and her ability to translate written Greek or Latin. Students may fulfill the foreign language requirement in Modern Greek by completing Modern Greek 4.

CLASSICS IN TRANSLATION

[Classical Literature 35. The Ancient Novel. Professor Bacon. Not given in 1974-75.]

Classical Literature 32x. Classical Myth.

A survey of major myths from the ancient near east to the advent of Christianity, with emphasis upon the content and treatment of myth in classical authors (Homer, Hesiod, Aeschylus, Euripides, Sophocles, Vergil, Livy, Ovid). Professor Lenaghan. M W F 10.

Byzantine Literature 37. The Literary World of Byzantium, I.

The origin and development of Byzantine Literature; from the late classical tradition (epigram, Agathias), and early Christian authors (Origen) to the end of the iconoclastic period (John of Damascus). Lectures and discussions will also include some consideration of the political, religious, and social thought of the period with particular emphasis on the impact of the pre-Islamic Arabic and Islamic cultures. Professor Christides. Tu Th 10:35-11:50.

Byzantine Literature 38. The Literary World of Byzantium, II.

The literature from the age of Byzantine humanism (Photius) to and including the historians of the Fall of Constantinople, with special emphasis on the popular epic of Digenes Akritas and the Byzantine romances (Callimachus and Chrysoroe, Belthandrus and Chrysantza). Not open to students who took course 37 in 1973-74. Professor Christides. Tu Th 10:35-11:50.

Classical Literature V3123x. Greek Drama and Its Influences.

The major Greek tragedies and comedies, and their influence on Roman and later European drama. Theories of comedy and tragedy including those of Aristotle. The production of plays. Professor Bacon. M W F 11.

[Classical Literature V3201x. The Social and Political Ideas of Plato. Not given in 1974-75.]

[Classical Civilization V3155x. Politics and Political Theory in Classical Athens. Professor Coulter. Not given in 1974-75.]

[Classical Civilization V3156y. Daily Life of the Ancient Romans. Professor Wertis. Not given in 1974-75.]

Classical Civilization V3158y. Women in Antiquity.

The role of women in ancient Greece and Rome. Their legal, economic, and social status; matriarchy and patriarchy; misogyny; female deities; literary types and prejudices; the portrayal of women in literature as compared with their actual social status. Readings from ancient epic, tragedy, history, philosophy, and examination of archaeological and epigraphical materials. Not open to students who took Studies in the Humanities 5 in 1973-74. Professor Sheffield. M W F 10.

Classical Civilization V3159x. Wealth and Poverty in Greece and Rome.

Urban and rural poor, slaves, commerce and trade, and luxury. Professor Bagnall. M W F 1:10.

GREEK LANGUAGE AND LITERATURE

For nonmajors, courses marked \$ will count toward the general college requirement.

1-2. Elementary Full-Year Course.

Grammar, composition, and reading. Course 1 is prerequisite to Course 2. Professor Bacon. M W F 9:40-10:50.

W1101x-W1102Y or W1101y. Elementary Course.

Equivalent to Course 1-2. W1101x-W1102y. Section I. Professor Calder (Autumn); Miss Moskowitz (Spring). M W F 11-12:15. Section II. Miss Cipro (Autumn); Professor Bagnall (Spring). M W F 6:10-7:25. W1101y. Miss Cipro. M W F 6:10-7:25.

§11. Prose and Poetry.

Selections from Lysias, Herodotus, and elegy. Prerequisite: Course 1-2, or the equivalent. Miss Leighton. M W F 10.

SW1201x. Prose and Poetry.

Equivalent to Course 11. Professor Tarán. M W 1:10-2:25.

§12. Selections from Homer.

Prerequisite: Course 11 or permission of the instructor. Professor Bacon. M W F 1:10.

SW1202y. Homer.

Equivalent to Course 12. Professor Bagnall. M W F 11.

SV3305x. Tragedy.

Euripides' dramas of intrigue and romance as prototypes for New Comedy. Euripides' **Ion** and **Iphigenia in Tauris**, Menander's **Dyskolos**. Prerequisite: Courses 11 and 12, or their equivalents. Given alternately with Greek V3307. Professor Bacon. M W F 11.

SV3306y. Historians.

Herodotus' political experiences and prejudices. His portrayal of kings (Croesus, Cyrus, Xerxes) and tyrants (Pisistratus, Periander, Polycrates). **Elpis** in Herodotus, Solon, and Thucydides. Prerequisite: Courses 11 and 12, or their equivalents. Given alternately with Greek V3308. Professor Sheffield. Tu Th 10:35-11:50.

[**SV3307x. Comedy.** Professor Benedict. Not given in 1974-75.]

[**SV3308y. Philosophy.** Professor Tarán. Not given in 1974-75.]

SV3309x. Selections from Greek Literature, I.

Since the content of this course changes each year, it may be taken for credit in consecutive years.

The satirical dialogues and sketches of Lucian; his role as heir to the serio-comic traditions of cynicism and his attitude toward contemporary Cynics; in this latter regard the major text will be **The Death of Peregrinus**. As a defense of cynicism, Epictetus' **On the Cynic Way of Life** will be read. Prerequisite: Courses 11 and 12, or their equivalents. Professor Coulter. M W 9:35-10:50.

SV3310y. Selections from Greek Literature, II.

Since the content of this course changes each year, it may be taken for credit in consecutive years.

Sophocles' **Oedipus at Colonus** and **Philoctetes**; their importance in Greek intellectual and literary history and their nature as examples of Sophocles' tragic art. Prerequisite: Courses 11 and 12, or their equivalents. Professor Calder. M W 11-12:15.

V3319x. Prose Composition, II.

The writing of sentences and connected passages in Greek. Prerequisite: at least four terms, or the equivalent, of Greek. Professor Solodow. Th 1:10-3.

[**V3320y. Prose Composition, II.** Not given in 1974-75.]

V3997x or y. Directed Reading.

To be tested by a series of short papers, one long paper, or an oral or written examination. Permission of the chairman of the department required. Members of the Barnard and Columbia Departments. Hours to be arranged.

V3998x or y. Supervised Research in Greek Literature.

A program of research in Greek literature, with the composition of a paper embodying results. Permission of the chairman of the department required. Members of the Barnard and Columbia Departments. Hours to be arranged.

SG4105x-G4106y. History of Greek Literature.

Lectures based on extensive readings in Greek literature from Homer to the fourth century A.D. Prerequisite: at least two terms of Greek beyond Course 11, 12. G4105x. Professor Porter. G4106y. Professor Coulter. Tu 2:10-4 and a third hour to be arranged.

[Greek-Latin 61y, 62x. Comparative Readings in Greek and Latin Literature.

Professors Bacon and Sheffield. Not given in 1974-75.]

LATIN LANGUAGE AND LITERATURE

For nonmajors, courses marked thus **5** will count toward the general college requirement.

1-2. Elementary Full-Year Course.

Grammar, composition, and reading. Course 1 is normally prerequisite to Course 2. Course 2 may be taken without Course 1 by permission of the instructor. It includes a complete review of grammar and syntax. Autumn Term. Professor Lenaghan. Spring Term. Professor Sheffield. M W F 11-12:15.

W1101x-W1102y, W1101y, W1102x. Elementary Course.

Equivalent to Course 1-2. W1101x-W1102y. Section I. Professor Wertis. M W F 11-12:15. Section IIa. Mr. Minter. M W F 6:10-7:25. Section IIb. Mr. Gilchrist. M W F 6:10-7:25. Section III. Autumn Term only. Miss Quackenbos. M W F 2:40-3:55. W1101y. Miss Hickey. M W F 6:10-7:25. W1102x. Professor Benedict. M W F 1:10-2:25.

53. Cicero: Selections.

Prerequisite: Course 1-2, or two or three years of high school Latin. Miss Leighton. M W F 11.

5W1201y. Cicero.

Equivalent to Course 3. Professor Tarán. M W 1:10-2:25.

54. Vergil. Selections from the *Aeneid*.

Prerequisite: Course 3, or two or three years of high school Latin. Professor Lenaghan. M W F 11.

5W1202x. Vergil.

Equivalent to Course 4. Instructor to be announced. M W F 10.

W1203y. Ovid: Selections from the *Metamorphoses*.

Prerequisite: Course 1-2, or two or three years of high school Latin. Professor Solodow. M W F 1:10.

5V3012x or y. Lyric Poetry.

Selections from Catullus and Horace. Prerequisite: Course 4, or four years of high school Latin. V3012x. Section I. Professor Commager. M W 3:10-4:25. Section II. Professor Sheffield. Tu Th 10:35-11:50. V3012y. Professor Benedict. M W F 10.

Greek and Latin

[**SV3011y. Myth and Pastoral.** Professor Wertis. Not given in 1974-75.]

S33y. Medieval Literature.

A survey of representative late Latin and Medieval texts; readings from the Church Fathers, sacred and secular lyric, history, romance, satire, and biography. Practice in paleography. Permission of the instructor required. Professor Lenaghan. M W F 1:10.

SV3305x. Historians.

Selections from Livy I-V; topics relating to his narrative art and his use of rhetoric; a comparison of his attitudes and ideas about his material with those of other historians. Prerequisite: Courses V3011 and V3012, or their equivalents. Given alternately with Latin V3307. Professor Solodow. Tu Th 11-12:15.

SV3306y. Satire.

Satires of Horace and Juvenal; Seneca's **Apocolocyntosis**; studies in the history of satire. Prerequisite: Courses V3011 and V3012, or their equivalents. Given alternately with Latin V3308. Professor Commager, M W F 2:10.

[**SV3307x. Elegiac Poetry.** Professor Commager. Not given in 1974-75.]

[**SV3308y. Philosophy.** Professor Benedict. Not given in 1974-75.]

SV3309x. Selections from Latin Literature, I.

Since the content of this course changes each year, it may be taken for credit in consecutive years.

The dramatic form and purpose of Seneca's tragedies with attention to style, chorus, staging, and sources: **Hercules Furens, Troades, Medea**. Prerequisite: Courses V3011 and V3012, or their equivalents. Professor Wertis. M W F 10.

SV3310y. Selections from Latin Literature, II.

Since the content of this course changes each year, it may be taken for credit in consecutive years.

Roman virtues and vices, **Pietas, fides, superbia, avaritia, luxuria, ira**. Illustrations from Cicero, Vergil, Livy, Prudentius. Prerequisite: Courses V3011 and V3012 or their equivalents. Professor Lenaghan. M W F 10.

[**V1109x-V1110y. Prose Composition, I.** Not given in 1974-75.]

V3319y. Prose Composition, II.

The writing of sentences and connected passages in Latin. Prerequisite: at least four terms, or the equivalent, of Latin. Professor Wertis. M 4:10-6.

[**V3320y. Prose Composition, II.** Not given in 1974-75.]

V3997x or y. Directed Reading.

To be tested by a series of short papers, one long paper, or an oral or written examination. Permission of the chairman of the department required. Members of the Barnard and Columbia Departments. Hours to be arranged.

V3998x or y. Supervised Research in Latin Literature.

A program of research in Latin literature, with the composition of a paper embodying results. Permission of the chairman of the department required. Members of the Barnard and Columbia Departments. Hours to be arranged.

SG4105x-G4106y. History of Latin Literature.

Lectures based on extensive readings in Latin literature from the beginning to the fourth century A.D. Prerequisite: at least two terms beyond Courses V3011 and V3012. G4105x. Professor Commager. M W 1:10 and a third hour to be arranged. G4106y. Professor Wertis. W 4:10-6, and a third hour to be arranged.

[Greek-Latin 61y, 62x. Comparative Readings in Greek and Latin Literature.

Professors Bacon and Sheffield. Not given in 1974-75.]

GRADUATE COURSES

Certain graduate courses given in the University are open to qualified majors with the consent of the department and the major adviser. These courses are described in the Bulletin of the Graduate School of Arts and Sciences.

MODERN GREEK LANGUAGE AND LITERATURE

1-2. Elementary Full-Year Course.

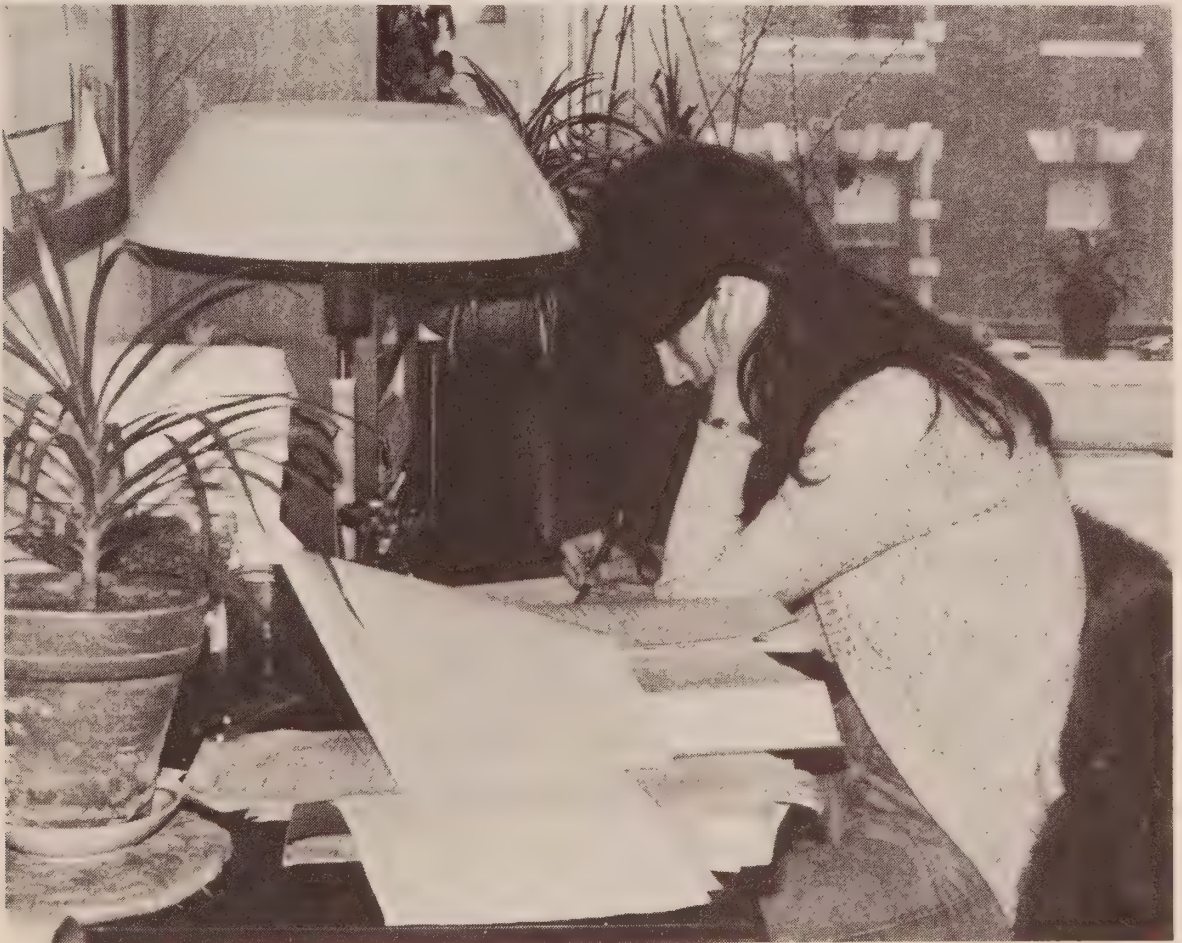
Course 1: basic grammar and syntax; practice in speaking, reading, and writing. Course 2: more advanced grammar and syntax; reading of simple texts, such as D. Solomos, **He hemera tes Lampres**; practice in speaking and writing. Professor Christides. Tu Th 4:10-5:25.

3. Modern Greek Literature, I.

Representative prose and verse from the 18th century to the present. Speaking and writing of more complex and idiomatic Greek. Professor Christides. Tu Th 2:30-4.

4. Modern Greek Literature, II.

Reading and discussion of selected literary texts, such as epic Akritic folksongs, poems of K. P. Cavafy, **Asketike** of N. Kazantzakis. Advanced work in speaking and writing. Professor Christides. Tu Th 2:30-4.



History

Professors

Annette K. Baxter, Patricia Albjerg Graham (Education), Stephen E. Koss, Maristella Lorch (Italian), Chilton Williamson

Robb Visiting Professor

Marjorie Reeves

Associate Professor

Suzanne F. Wemple¹

Assistant Professors

John W. Chambers, Jr., Ann Fagan, Daniel Field, Darline G. Levy, Robert McCaughey, Ann Sheffield (Classics), John Snook (Religion)

Lecturers

Patricia H. Labalme, Marion T. Jones

Other officers of the University offering courses listed below:

Professors

Zvi Ankori, J. M. W. Bean, Stuart Bruchey, Istvan Deak, D. M. Dunlop, Ainslie T. Embree, Nina G. Garsoian, Henry F. Graff, Loren R. Graham, Nathan L. Huggins, Graham W. Irwin, Herbert S. Klein, William E. Leuchtenburg, Eric S. McKittrick, Walter P. Metzger, John H. Mundy, Marc Raeff, David J. Rothman, James P. Shenton, Jacob W. Smit, Morton Smith, Fritz Stern, Herschel Webb, Isser Woloch

Visiting Professor

Morton Rosenstock

Associate Professors

William V. Harris, Kenneth Jackson, William R. Roff, Marcia Wright

Adjunct Associate Professor

Arthur Hertzberg

Assistant Professors

Sheila Biddle, Andrzej Kaminski, Daniel Leab, Thomas C. Leonard, Vojtech Mastny, Peter Onuf, John D. Schmidt, Karen Spalding, John A. Toews

Special Lecturer

Richard B. Morris

¹Absent on leave, 1974-75.

History, as knowledge of the past, touches all aspects of human experience. Historians' accounts of the past form a branch of literature in which factual statements can be verified in primary sources. History should be studied to improve understanding of man in society — his failures and his achievements — and to acquire a sense of the relevance of the past to the present.

Students who intend to major in history are urged to consult an adviser in the department at the beginning of the sophomore year in order to plan their academic programs for the remaining three years in college.

The requirements for a major in history are a minimum of eleven courses distributed as follows:

1. At least six courses in an area of concentration. Two of the six courses must be the senior research seminar in which the student will write a senior essay. While history majors usually concentrate on European or American history, they may, upon approval of the chairman, concentrate in any field of particular interest, such as ancient, medieval, Jewish, Oriental, African, cultural, or urban history.

2. At least three history courses outside the field of concentration.
3. At least two seminars, one of which may be an Introductory Seminar.

Note: Two courses of the eleven may be taken in other departments provided that such courses are closely related to the student's field of concentration, and provided that she obtains the written permission of her major adviser.

No special permission is necessary for Barnard College students to register for lecture courses listed in this catalogue. Full course descriptions of Columbia College courses will be found in the Columbia College catalogue. Written permission of the instructor is required for those wishing admittance to all seminars. Meeting arrangements and structure of each seminar will be announced by the instructor at the beginning of the course.

Columbia College students may not register for Barnard Introductory or Senior Research Seminars.

Certain graduate courses, "G" courses, given at Columbia University are open to qualified majors with the consent of the Chairman of the Barnard Department and of the instructor. A description of these courses will be found in the Bulletin of the Graduate School of Arts and Sciences.

LECTURES. ANCIENT, MEDIEVAL, AND MODERN EUROPEAN HISTORY

SW1001x-W1002y. The Beginning of History and the Bronze Age.

Professor Schmidt. M W 7:10-8:30.

Classical Civilization SV3156y. Women in Antiquity.

The role of women in ancient Greece and Rome. The legal, economic, and social status; matriarchy and patriarchy; misogyny; female deities; literary types and prejudices; the portrayal of women in literature as compared with their actual social status. Readings from ancient epic, tragedy, history, philosophy, and examination of archaeological and epigraphical materials. Professor Sheffield. M W F 10.

W1005x-W1006y. 1200 B.C. to 640 A.D.

Professor Smith. Tu Th 6:30-7:50.

W4006x-W4007y. Introduction to the Study of Ancient Egypt.

Professor Schmidt. M 10-11:50.

W4520y. History of the Second Jewish Commonwealth and Talmudic Period.

Professor Ankori. W 4:10-6.

[**53. The Early Middle Ages: 300 to 1050.** Professor Wemple. Not given in 1974-75.]

54. The High Middle Ages: 1050 to 1450

The social environment, political institutions, church history, thought and science, from the Gregorian Revolution to the Renaissance. Professor Reeves. Tu Th 10:35-11:50.

[**5. The Roots of the Modern World: Western Europe. 1230-1494.** Professor Wemple. Not given in 1974-75.]

W4294y. English Constitutional History: 1450-1900.

Prerequisite: junior standing or permission of the instructor. Professor Bean. Tu Th 11-12:15.

W4203x. The Medieval Town.

Professor Mundy. W 6:10-7:50.

History

SW3201x. The Foundations of Modern Europe: 1450-1559.

Dr. Labalme. Tu Th 10:35-11:50.

SW3202y. Europe in the Age of Religious Wars: 1560-1660.

Professor Smit. M W F 10.

[History-Italian SW3197x. Dante's World.

Professors Lorch and Wemple. Not given in 1974-75.]

History-Italian SV3199x. Petrarch's World.

Petrarch and the classics, the vitality of the Pagan and Christian heritage in Petrarch. His concept of imitation as emulation. The eulogy of ignorance. Introduction to research on special topics (friendship, old age, solitary life, political commitment, *virtues*.) Professor Lorch. Tu 4:10-6, plus two hours of readings in Italian to be arranged.

S11. Main Currents of the Modern European World: Renaissance to the French Revolution.

The forces — cultural, social, political, economic — which established modern Europe and brought it into contact with the rest of the world. Professor Fagan. Tu Th 2:40-3:55.

S12. Main Currents of the Modern European World: Waterloo to Today.

Nineteenth-century industrial revolutions, romanticism, liberalism, nationalism, socialism, and imperialism; and twentieth-century wars, revolutions, dictatorships, and aspirations. Professor Fagan. Tu Th 2:40-3:55.

S13. The Italian Renaissance.

The development of city-states, ideals of education, statecraft, the arts, the courtly tradition, and philosophical pursuits in Italy from 1400 to 1543. Dr. Labalme. Tu Th 2:40-3:55.

[S14. The Reformation in Europe in the Sixteenth Century.

Dr. Labalme. Not given in 1974-75.]

[S15. The History of Venice to the Eighteenth Century.

Dr. Labalme. Not given in 1974-75.]

[S21. England under the Tudors and Stuarts: 1485 to 1714.

Professor Koss. Not given in 1974-75.]

S22. Modern Britain: 1714 to Today.

The transformation from squirearchy to meritocracy, with an emphasis on the rise of industrialism, its effects on Britain's domestic and international situations, and the development of the welfare state. Professor Koss. Tu Th 2:40-3:55.

S25. The Establishment and Downfall of the French Monarchy: 1515-1789.

The cultural, intellectual, political, social, and economic developments that brought into existence the monarchy of Louis XIV and led to its collapse. Professor Levy. Tu Th 10:35-11:50.

S26. France in Turmoil: 1789 to Today.

The cultural, intellectual, political, social, and economic developments that have kept France in turmoil from the French Revolution to Charles de Gaulle. Professor Levy. Tu Th 10:35-11:50.

W4150x-W4151y. France in the Revolutionary Era: 1715-1848.

Professor Woloch. F 10-11:50.

S35. European Intellectual History: 1600-1789.

Social, political, economic, religious, and scientific thought and the arts in Europe from

the post-Reformation period through the Age of the Enlightenment. Professor Levy. Tu Th 2:40-3:55.

SW3205x-W3206y. The Political Culture of Europe Since 1870.

Autumn Term: Professor Mastny. Tu Th 4:10-5:25. Spring Term: Professor Stern. Tu Th 2:10-3:25.

W4636x. Intellectual Currents in Modern Jewry.

Professor Hertzberg. W 10-11:50.

S19. European Diplomacy: 1914-1939.

The origins and impact of the First World War; the "new diplomacy" and the peace settlements; the emergence of new political systems; attempts to attain stability in the twenties; the collapse of the thirties. Professor Fagan. Tu Th 10:35-11:50.

S20. The Second World War and the Recovery of Europe: 1939 to Today.

The Second World War and its legacy; the United Nations; rival groups and the Cold War; the new place of Europe in the world. Professor Fagan. Tu Th 10:35-11:50.

S27. History of Russia from the Time of Troubles to the Era of Reforms.

Political, economic, and social history from the beginning of the seventeenth century to the middle of the nineteenth century. Professor Field. Tu Th 10:35-11:50.

S28. History of Russia from the Era of Reforms to the Death of Stalin.

Political, economic, and social history from the middle of the nineteenth century to the middle of the twentieth century, with special emphasis on the revolutions of 1917. Professor Field. Tu Th 10:35-11:50.

W4425x-W4426y. History of Poland, Lithuania, and the Ukraine from 1569 to the Present.

Professor Kaminski. W 10-12.

W4441x-W4442y. History of Hungary from 1848 to the Present.

Professor Deak. M 11-1.

[**S29. The Culture of Pre-Petrine Russia.** Professor Field. Not given in 1974-75.]

W4328y. The British Empire and Commonwealth, from 1783 to the Present.

Professor Williamson. M W 11.

W4160y. European Intellectual History, 1815-1890.

Professor Toews. M W 11-12:15.

SEMINARS. ANCIENT, MEDIEVAL, AND MODERN EUROPEAN HISTORY

[**S7y. Revival and Survival of Rome.** Professor Wemple. Not given in 1974-75.]

[**S6. The History of Women in the Late Roman Empire and the Middle Ages.**

Professor Wemple. Not given in 1974-75.]

SW3771y. Medieval and Central Europe.

History of medieval Poland, Lithuania, Novgorod, and Bohemia. Special attention will be given to the formation of states, cultural life, and religious and social tensions. Professor Kaminski. Th 6:10-8.

S8. Heretical Movements in Western Europe: 1100-1400.

The nature, causes, and geographical distribution of four main types of heresy and their treatment by ecclesiastical and temporal authorities. Professor Reeves. W 4:10-6.

S9y. The Meaning of History in Medieval and Renaissance Europe.

Some ideas of history and of prophetic expectations for the future of man during the Medieval and Renaissance periods with special attention to St. Augustine, Joachim of Fiore, Dante, and Savonarola. Professor Reeves. Tu 2:10-4.

W3777x. Medieval Social History.

Readings in translation concerning social classes. Social orders, and social and political theory and manners from the twelfth through the fifteenth century. Professor Mundy. W 4:10-6.

516. The Renaissance in Northern Europe and Spain.

The impact of change in selected figures and attitudes of sixteenth century intellectual history; humanism and reform of religion and society; exploration in the New World; the revolution in astronomy, artistic tradition, and techniques. Readings by and about Erasmus, Luther, More, Montaigne, Cervantes, Copernicus, and Dürer. Dr. Labalme. Th 2:10-4.

5C3825x. Religion and Social Change in England: 1558-1689.

Religion and the rise of Capitalism: Weber, Tawney, Christopher Hill, and the debate on the "Puritan Revolution." Religion and political and social radicalism: the radical sects, including Levellers, Diggers, and Fifth Monarchists. Professor Biddle. Tu 2:10-4.

W3947y. The Role of London in English Politics and Society: 1600-1800.

The development of London as a political, economic, and social center from the accession of James I to the end of the eighteenth century. Professor Biddle. Tu 2:10-4.

537y. The European Enlightenment.

The intellectual origins of the Enlightenment; Enlightenment ideas in their social and intellectual setting; the influence of the Enlightenment on the French Revolution. Professor Levy. W 2:10-4.

5W3866x-W3867y. From Counter-Reformation to Romanticism.

Topics in institutional and intellectual history of Europe from the seventeenth to the nineteenth century. Professor Raeff. M 11-12:50.

W3801x. Europe between the Congress of Vienna and the Crimean War.

Discussion of selected topics of the political and social development of Europe from 1815 to 1856. Professor Deak. M 4:10-6.

5W3879x. European Diplomacy from Versailles to Potsdam.

Readings and discussions of the main problems and research and historiography. Professor Masny. Tu 2:10-4.

W3960x. Philosophy and the Social Order from Kant to Marx.

Discussion of selected writings of Kant, Fichte, Schiller, Hegel, Feuerbach, and Marx as intellectual responses to social and cultural dislocation in Germany and Western Europe between 1770 and 1848. Professor Toews. Th 2:10-4.

[536. European Intellectual Developments: 1789-1870.

Professor Levy. Not given in 1974-75.]

523. The Russian Revolutions of 1917.

A close scrutiny of the February and October Revolutions relying largely on primary sources – memoirs, doctrinal writings, and documents of other kinds. Prerequisite: History 28 or permission of the instructor. Professor Field. Tu 4:10-6.

530. Russian Radicalism and its Antagonists.

Social and political thought from the eighteenth century to the 1920's; the enlightenment in Russia; the Decembrist movement; the slavophiles and later nationalists; the "westerners" and their successors; the development of Russian Marxism. Special emphasis on pre-Marxist radicalism (narodnichestvo). Professor Field. Tu 2:10-4.

[548. Modern Imperialism: Myth and Reality. Professor Williamson. Not given in 1974-75.]

- [**\$31. Serfdom in Russia and Slavery in the United States.** Professor Field. Not given in 1974-75.]
- [**\$44. Origins and Rise of Fascism.** Professor Fagan. Not given in 1974-75.]
- [**\$45. The Life and Lifetime of Sir Winston Churchill.** Professor Koss. Not given in 1974-75.]
- [**\$46x. Europe in the Age of Tyrannies: 1914-1945.** Professor Koss. Not given in 1974-75.]
- [**\$47. Towards Munich and War: British Policy in the Thirties.** Professor Fagan. Not given in 1974-75.]

LECTURES. UNITED STATES HISTORY

SW1109x. Main Currents in American History: 1492-1865.

Professor Onuf. Tu Th 6:10-7:25.

SW1110y. Main Currents in American History Since 1865.

Professor Onuf. Tu Th 6:10-7:25.

\$51. Survey of American Civilization to the Civil War.

The major theological and organizational concerns of seventeenth-century English colonists; the political and ideological process of defining an American; the social and economic forces that helped shape a distinctive identity; the inherent pressures that culminated in the nation's violent disruption in 1861. Professor McCaughey. M W F 10.

\$52. Survey of American Civilization Since the Civil War.

The major intellectual and social accommodations made by Americans to industrialization and urbanization; patterns of political and economic thought from Reconstruction to the New Deal; selected topics on post-World War Two developments. Professor McCaughey. M W F 10.

\$53. American Colonial History.

A study of continuity and change in the major institutions of American society from 1607 to 1783. Professor Williamson. Tu Th 10:35-11:50.

\$54. American Revolutionary History.

Why and how the American people made a revolution, waged a war and climaxed their victories with the Federal Constitution. Professor Williamson. Tu Th 10:35-11:50.

W4601y. American Beginnings: 1584-1763.

Professor Vaughan. Th 11-12:50.

W4667x-W4668y. The Age of Federalism and the Jeffersonian Era.

Professor McKittrick. F 10-11:50.

SW3121x-W3122y. The United States in the Nineteenth Century: 1815-1877.

Professor Shenton. Tu Th 2:35-5:25.

[**\$57. Origins of Modern America: from Reconstruction to the First World War.**

Professor McCaughey. Not given in 1974-75.]

W4673x-W4674y. American Urban History. Professor Jackson. M W 10-11:20.

W4681x-W4682y. American Legal and Constitutional History.

Professor Morris. M 11-12:50.

W4693x-W4694y. American Economic History.

Professor Bruchey. Tu 2:10-4.

W4742x-W4743y. American Labor History. Professor Leab. Tu Th 11-12:15.

History

W4701x-W4702y. Afro-American History.

Professor Huggins. Tu Th 10-11:15.

History-Religion §64. The History of Religion in America.

Religious thought and institutions from colonial times to the present; their influence on American political and social history through the work of representative individuals. Professor Snook. Tu Th 9:10-10:25.

W4131x-W4132y. American Social History: The Colonial Period to the Present.

Professor Rothman. Tu Th 1:10-2.

SW3141x-W3142y. Social and Cultural History of Recent America.

Professor Metzger. Hours to be arranged.

§83. American Intellectual History: 1775-1865.

An examination of the major intellectual themes – and their institutional manifestations – in the United States, including the American Enlightenment, the ideology of the Founding Fathers, the assertion of cultural independence; the Jacksonian temper; Transcendental and millenarian thought; racism and abolitionism. Professor McCaughey. Tu Th 10:35-11:50.

§84. American Intellectual History: 1865-1918.

An examination of the major intellectual trends in the United States between Appomattox and World War One, including Darwinism, mugwumpery, the emergence of the American university, cataclysmic thought in the '90's, the Progressive temper, the crisis of the Pragmatists in 1917. Professor McCaughey. Tu Th 10:35-11:50.

§60x. The United States and World Affairs: 1898 to the Present.

Examination of U.S. foreign policy since the Spanish-American War, focusing on major issues, personalities and processes as the country moved from isolation to involvement in World Affairs. Significance of ideology, bureaucracy, technology, and economic interest in formulation of policy. Role of Executive Branch, Congress, the military and civilian pressure groups. Means used to achieve foreign policy goals – diplomatic, economic, and military – and alternatives proposed by contemporaries. Professor Chambers. Tu Th 2:40-3:55.

§69. War and Reform in Industrial America: 1898-1940.

Emergence of Urban, Industrial America and subsequent changes in attitudes, social order, and foreign policy. Examination of corporate giantism, mass immigration, urban ghettos, labor unions, and reform movements, and the impact of war and depression, as well as the political responses to these developments. Professor Chambers. Tu Th 10:35-11:50.

[§58. Radicalism, Reform, and Reaction in Modern America: 1913 to Today.

Not given in 1974-75.]

W4684y. The United States between the Two World Wars.

Professor Leuchtenburg. Tu Th 11-11:50.

§70. Expanding America: 1941-1971.

Economic, political, and military growth at home and abroad; emergence of the United States as an active World Power during World War II; the Cold War; and the Korean and Vietnam conflicts; the development of affluent society, multi-national associations, and the military-industrial complex; continuation of the New Deal and the challenges for the extension of political and economic equality and protection of the environment. Professor Chambers. Tu Th 10:35-11:50.

§68. The United States and the Vietnam War: 1945 to Today.

The Indochina policy of President Roosevelt; President Truman's decision to support the

French return; President Eisenhower, Secretary Dulles, and the Geneva Agreements of 1945; President Kennedy and counter-insurgency; President Johnson and escalation, the crises of 1968; President Nixon and Vietnamization; the impact of the War on the Vietnamese and the American people and society. Professor Chambers. Tu Th 2:40-3:55.

W4697x-W4698y. Main Directions in the Foreign Relations of the United States.

Professor Graff. W 4:10-6.

SEMINARS. UNITED STATES HISTORY

[**555. Jacksonian America.** Professor Williamson. Not given in 1974-75.]

580x. Anglo-American Perceptions.

An investigation of trans-Atlantic influences, using both English and American primary sources. Among the topics to be considered are: 17th century Puritanism; varieties of Whiggery and Radicalism; movements for democratic and social reform; the imperial experience; 20th-century cultural connections and Alliance politics. Colloquium. Permission of the instructor required. Professors Koss and McCaughey. Th 4:10-6.

581. History of Women in America to 1890.

An examination of important historical and literary sources for the study of American women from colonial times to 1890. Permission of the instructor required. Professor Baxter. Tu 2:10-4.

582. History of Women in America since 1890.

An examination of important historical and literary sources for the study of American women from 1890 to today. Permission of the instructor required. Professor Baxter. Tu 2:10-4.

561. American Historiography.

The art and craft of American historians from Puritan to modern times. Permission of the instructor required. Professor Williamson. Tu 4:10-6.

563y. Problems in the Teaching of History.

The selection and organization of content for junior and senior high school history courses; use of primary sources, secondary readings, and other relevant materials; problems of evaluation. For students in the Education Program; others by written permission of the instructor. Mrs. Jones. M 4:10-6.

565. History of Education in the United States.

The development of American education within the context of social and intellectual history with particular attention to the nineteenth and twentieth centuries. Professor Graham. M 2:10-4.

571y. The Higher Learning in America.

The English college model and the American colonial context; the antebellum college and the egalitarian imperative. The emergent university as refuge and catalyst; the embattled multiversity and the contemporary predicament. Professor McCaughey. Th 4:10-6.

578. American Wartime Dissent: 1775-1972.

Relationship between government and groups which dissented from official war aims in various American wars from 1775 to 1972: pacifists, opponents of specific wars, and those favoring the cause of the other side; together with groups urging expansion of war aims and their interaction with authorities. Professor Chambers. W 2:10-4.

W3946y. Patterns of Urban and Suburban Growth in the Growth of the United States: 1825-1950.

Emphasis on transportation, technology, residential movements, and political connection. Professor Jackson. M 4:10-6.

History

SC3923x-C3924y. The Civil War and Reconstruction: 1840-1877.

Readings and research in the social, economic, political, and military affairs of the United States before, during, and after the Civil War. Professor Shenton. Tu 4:10-6.

SW3932y. Cultural Rebels in America: 1890-1929.

Modernism in the arts and radicalism in politics; the social and intellectual history of American dissent before the Great Depression. Professor Leonard. Tu 4:10-6.

W3892y. The United States in the 1930s.

Readings and research on social, economic, and political developments in the United States during the 1930s. Professor Leab. W 2:10-4.

W3897x-W3898y. The United States in the Cold War Era: 1945-1963.

Readings and research on social, economic, and political developments in the United States from the decision to drop the atom bomb to the assassination of John F. Kennedy. Professor Leab. W 2:10-4.

[**§74. Critics of Modern America: 1865 to Today.** Professor Baxter. Not given in 1974-75.]

[**§75. Franklin D. Roosevelt and the New Deal.** Not given in 1974-75.]

[**§76. Franklin D. Roosevelt and Foreign Affairs.** Not given in 1974-75.]

SC3935x. Black Urban America.

An historical examination of all major aspects of Black life in the inner city, 1870 to the present. Professor Lynch. Th 4:10-6.

SW3903x-W3904y. The American Presidency.

Readings and research aimed at the development of skill in historical writing. The theme for the year is chosen in consultation with the class. Professor Graff. W 10-11:50.

SW3898y. Twentieth-Century American History: the 1950s.

Readings and research on social, economic, and political developments in the United States from the election of Eisenhower to the New Frontier. Prerequisite: W1109 and W1110, or the equivalent, and permission of the instructor. Professor Leab. W 2:10-4.

[**§67. United States Relations with East Asia: 1785-1953.** Not given in 1974-75.]

LECTURES. LATIN AMERICAN AND NON-WESTERN HISTORY

W4851x-W4852y. The Modern History of Southern Asia. Professor Roff. Th 2:10-4.

Oriental Civilizations §V3357x. Introduction to the History and Civilization of India.

Professor Embree. Tu 10-11:50.

Oriental Civilizations §V3359y. Introduction to the History and Civilization of China.

Instructor and hours to be announced.

Oriental Civilizations §V3361x. Introduction to the History and Civilization of Japan.

Professor Webb. Th 2:10-4.

W4825x-W4826y. History of Modern South Asia.

Professor Embree. Tu 2:10-4.

W4471x. History of the Arabs: 1800-1914.

Prerequisite: Permission of the instructor. Professor Dunlop. Th 9-10:50.

W4463x. History of the Caliphate.

Professor Dunlop. M 10-11:50.

W4503x-W4504y. Armenian History and Civilization II.

Professor Garsoian. Tu 2-4.

W4779x-W4780y. History of Latin American Civilization.

Professor Klein and/or Professor Spalding. Th 2:10-4.

Afro-American Civilization SW3001x-W3002y. Introduction to the History and Culture of the Black Man in Africa and the Americas.

W3001x, Professor Irwin. Tu Th 11-12:15. W3002y, Professor Lynch. Tu Th 1:10-2:25.

SW3127x-W3128y. History of Africa. Professor Irwin. M W 11-12:15.

W4909x. The History of East and Central Africa.

Professor Wright. W 4:10-6.

W4922y. The Economic History of West Africa.

Professor Irwin. M 4:10-6.

HISTORY OF SCIENCE

Lecture.

W1004y. History of Science, Newton to the Present.

Professor Graham. Th 10-12.

Seminar.

SW3791x. Problems in the History of Modern Science.

Prerequisite: permission of the instructor to be obtained before the first class meeting.
Professor Graham. Th 10-11:50.

SEMINARS. INTRODUCTORY AND SENIOR RESEARCH

§89. Introductory Seminars.

[I. Debates among Historians. Professor Fagan. Not given in 1974-75.]

§90. Introductory Seminars.

[I. History and Psychoanalysis. Professor Levy. Not given in 1974-75.]

91-92. Senior Research Seminar in European Civilization.

Students will conduct individual research, in consultation with the instructor, on subjects in European thought and society of particular interest to themselves. The results of each project will be presented in seminar discussion in the form of the Senior Essay. Open to senior majors; others by written permission of the instructor. Section I. Professor Fagan. Th 4:10-6. Section II. Professor Levy. W 4:10-6.

93-94. Senior Research Seminar in American Civilization.

Individual research on diverse aspects of American history, and presentation of results in seminar discussion in the form of the Senior Essay. Open to senior majors; others by written permission of the instructor. Professor Williamson. Th 4:10-6.

99x, 99y. Independent Study.

Members of the Department.

C3951x-C3952y. Supervised Research in History.

Studies in the Humanities

This program, not to constitute a major, is supervised by the Committee on Studies in the Humanities.

Professor of French

Maurice Z. Shroder, Chairman

Professor of Philosophy

Mary Mothersill

Associate Professor of English

Anne Prescott

Assistant Professor of Art History

Joseph Masheck

Assistant Professor of Religion

Elaine Pagels

The following courses are designed to permit students to broaden their knowledge of the humane tradition and to complement the kinds of specialization inherent in a major program.

Except where prerequisites are indicated, all courses are open to freshmen.

1. The Faust Theme in Literature and Music.

The quest for forbidden knowledge and sensual experience. Medieval, Renaissance, Romantic, and modern embodiments of man's search for the secrets of life and creativity. Faust as sorcerer and alchemist; as sensualist; as Nietzschean immoralist. Principal texts by Marlowe, Goethe, Mann. The Faust operas of Gounod, Berlioz, Boito. Professor Peters. M W 2: 10-3:25.

[4. Autobiography and Confession. Professor Shroder. Not given in 1974-75.]

[6. The Homosexual in Literature. Professor Gustafson. Not given in 1974-75.]

[7. Class and Self in Modern European Literature. Professor Gavronsky. Not given in 1974-75.]

8. Literary Explorations of Justice.

Divine and human justice, as they are portrayed in drama and in fiction, from antiquity to the present; some consideration of theories of justice. Readings from Aeschylus, Sophocles, Shakespeare, Melville, Carroll, Dostoevsky, Chekhov, Kafka, and Camus. Dr. Terry. Tu Th 10:35-11:50.

9. The Concept of Death.

An analysis of various paradoxes arising from the thought that death is a fact of life; a contrast between first- and third-personal perspectives on death; arguments for and against suicide. Reading includes selections from Plato, Epicurus, Cicero, Montaigne, Spinoza, Hume, Schopenhauer, Tolstoi, Mann, Malraux, and Alvarez. Professor Mothersill. W 2: 10-4, plus discussion hours.

10. Drama and Ritual.

The development of religious dramatic forms, from primitive ritual to the contemporary theatre. Special attention will be given to the early Church tropes and medieval play cycles and their influence upon modern religious drama. Selected readings from the Bible, medieval miracle and morality plays, Jonson, Bunyon, Calderon, Claudel, Yeats, Brecht, and Eliot. Professor Janes. W 1: 10-3.

Humanities V3003x-V3004y. Readings in European and American Literature and Philosophy of the Nineteenth and Twentieth Centuries.

The disintegration of traditional canons in ethics and aesthetics and the attempt to

reestablish values in a world where their justification has become increasingly individual or relative. Works by Diderot, Blake, Stendhal, Gogol, Kierkegaard, Flaubert, Melville, Dickens, Dostoevsky, Tolstoy, Nietzsche, Chekhov, Proust, Joyce, Kafka, Beckett, and others. Prerequisite: a grade of B or better in Humanities C1001-C1002 or permission of the instructor. Professor Babinski (V3003x) and Professor Stanton (V3004y). M W F 1:10.

The following departmental courses are included in this Interdepartmental Offering. For complete descriptions consult appropriate department listings.

[English 58. Medieval Literature.]

[English 83. Modern Literature and the Allied Arts.]

English 86. Drama from Ibsen to the Present.

History-Italian V3199x. Petrarch's World.

[History-Italian W3197x. Dante's World.]

Music V3042x. Aesthetic Disciplines in Music.

Oriental Humanities V3399x-V3400y. Colloquium.

[Oriental Studies V3402y. Forms of Art in India.]

Oriental Studies V3501x-V3502y. Seminar in Asian Literature.

Philosophy 34. The Concept of Beauty.

Philosophy 43, 44. Philosophical Implications of the Modern Novel.

Philosophy 61. Greek Philosophy.



Interdepartmental Offerings

EXPERIMENTAL COLLEGE 1, 2.

An experiment in self-structured learning. Evaluation of the learning process, through the creation and execution of a program of independent study. Students may work in cooperation with faculty sponsors either individually or in a group or groups. Proposals for projects must be approved before September 20 for the Autumn Term and January 31 for the Spring Term. Enrollment is limited to forty students, and no more than three terms in Experimental College may be credited toward the degree. Professor Eisenstein. W 2:10-4.

EXPERIMENTAL COLLEGE 4.

A theoretical approach to some of the issues raised by the experimental education movement, with emphasis on the "culture" of the traditional classroom – competition, roleplaying, authority, tracking, and other elements, and the implications of some alternative educational modes. Registration limited to 25. Permission of the instructor required. Professor Eisenstein. M 2:10-4.

INTERDEPARTMENTAL COURSE 4. Determinants of Sexuality.

Biological and psychological foundations of maleness and femaleness emphasizing references from Endocrinology and Psychiatry. Psychoanalytic, social learning, and cognitive developmental theories. Current clinical data on human sexual differentiation in the life cycle. Alternative biological and psychological expressions of sexuality; chromosomal abnormalities, hormonal modifications, sexual dysfunctions, homosexuality, transsexualism. Traditional evolutionary, phylogenetic and socio-anthropological perspectives will not receive primary consideration. Drs. Mogul and DeFries. M W 1:10-2:25.



Professor

Maristella de Panizza Lorch (Chairman; 206 Milbank)

Instructor

Maria Grazia DiPaolo

Other officers of the University offering courses listed below:

Professors

John C. Nelson, Olga Ragusa, Luciano Rebay

Assistant Professor

Pelligrino D'Acierno

A major in Italian is expected to attain (a) sufficient knowledge of the language to enable her to read, write, and speak it, (b) a fundamental acquaintance with Italian literature, (c) ability to understand and interpret literary texts in Italian.

Courses: A minimum of ten courses, exclusive of language courses, to be planned as early as possible in consultation with the department; Course V3993x-V3994y.

Allied subjects: In consultation with their major adviser students should select courses in other languages and literatures, music, art history, philosophy, and religion.

The major examination consists of four hours of written work and an oral examination.

Foreign Language Requirement for the Degree: All new students who intend to satisfy the foreign language requirement in Italian must take a placement examination before registration. This examination tests the student's knowledge of grammar, her ability to comprehend written and spoken Italian, and her ability in free composition. Students receiving a sufficiently high grade will automatically fulfill the requirement. All others may do so by completing a full-year literature course, given in Italian, or Course V3442y with a minimum grade of B+.

Casa Italiana: The Casa Italiana, located on Amsterdam Avenue at 117th Street, is open to all students interested in Italian culture and literature. A program of films, lectures, concerts, plays, poetry recitations, and informal gatherings is organized to meet the students' needs. Professor Lorch directs the Casa.

LANGUAGE COURSES

V1101x-V1102y. Elementary Full-Year Course.

An integral course for beginners with intensive oral-aural drill. Reading, translation, conversation. May not be taken simultaneously with elementary Spanish. No credit is given for Course V1101x until Course V1102y has been completed. Work in the language laboratory for one hour weekly is optional. Section I. M Tu W Th 9. Section II. M Tu W Th 11. Section III. M Tu W Th 12.

V1201x-V1202y. Intermediate Course.

A review of the essentials of grammar; intensive and extensive reading, particularly from contemporary authors; translation, composition, and practice in conversation. Prerequisite: Course V1101x-V1102y or the equivalent. Section I. M Tu W Th 10. Section II. M Tu W Th 12.

V1301x-V1302y. Comprehensive Elementary and Intermediate Course.

For linguistically gifted students who wish to acquire by intensive study the reading skill necessary to interpret Italian literary texts. Permission of the Chairman required. Section I. M W F 11-12:15. Section II. M W F 4:10-5:25.

With the permission of the chairman of the department, this course may be applied toward the fulfillment of the language requirement, provided it is followed by a one-year course in Italian literature.

Italian

V3113x-V3114y. Introduction to the Reading and Analysis of Italian Literature.

Open primarily to graduate students in other departments as a cognate course to their field of specialization. Qualified juniors and seniors may be admitted with permission of the instructor. A previous knowledge of Italian is not required. V3113x. The basic structure of the language, with emphasis on building vocabulary through progressively difficult readings. V3114y. Reading and analysis of selected classics of Italian literature by such authors as Dante, Petrarca, Boccaccio, Machiavelli, Manzoni, Verga, and Pirandello. Professor D’Acierno and associate. M W 4:10-5:25.

LITERATURE COURSES IN ITALIAN

For nonmajors, courses marked thus **S** will count toward the general college requirement. All courses are conducted in Italian.

SV3335x-V3336y. Italian Written and Oral Style.

Written and oral self-expression in Italian; brief papers, translations, and oral reports on a variety of topics; grammar review. Prerequisite: V1201-V1202 or the equivalent. Miss DiPaolo. M W 4:10-5:25.

V3442y. Masterpieces in Italian Literature.

Analysis of selected works; oral and written reports. (V3441, the first term of this course, is not given in 1974-75.) Prerequisite: V1201-V1202 or the equivalent. Professor Rebay. M W 11-12:15.

[SV3449x-V3450y. Modern Italian Literature. Not given in 1974-75.]

V3641y. The Italian Theatre and Its Contribution to European Theatre.

Literary and dramatic characteristics of Renaissance comedy, tragedy, pastoral drama, and **commedia dell’arte**, followed by a brief history of the melodrama and Pirandello’s theatre. Professor Lorch. Tu 4:10-6.

SV3993x-V3994y. Seminar in Italian Literature.

Guidance in research and writing of a critical essay. Required of majors. Open to other qualified students with permission of the Chairman. Professors Lorch, Nelson, Ragusa, and Rebay. Hours to be arranged.

COURSES GIVEN IN ENGLISH

Majors are required to attend an additional seminar hour conducted in Italian in those courses so indicated below.

[V1122y. Studies in the Italian Renaissance. Professor Lorch. Not given in 1974-75.]

[V1134y. Studies in Medieval Romance Literature. Professor Nelson. Not given in 1974-75.]

[History-Italian W3197x. Dante’s World. Professors Lorch and Wemple. Not given in 1974-75.]

V3198y. Boccaccio.

Analysis of the **Filostrato**, **Fiammetta**, the **Decameron**, and selections from other works by Boccaccio. Third hour devoted to the original texts. Professor Nelson. Tu 2:10-4. An additional hour for students majoring in Italian: Th 2:40-3:30.

History-Italian V3199x. Petrarch’s World.

Petrarch and the classics, the vitality of the Pagan and Christian heritage in Petrarch. His concepts of imitation as emulation. The eulogy of ignorance. Introduction to research on special topics (friendship, old age, solitary life, political commitment, **virtues**). Professor Lorch. Tu 4:10-6, plus two hours readings in Italian to be arranged.

[V3221-V3222. Machiavelli, Castiglione, Ariosto, and Tasso. Not given in 1974-75.]

[V3642y. **Studies in Contemporary Italian Arts: Italian Film.** Professor Lorch. Not given in 1974-75.]

English-Italian C3358y. Artistic Theory in the Renaissance.

An examination of a selected number of texts (in translation) on artistic theory — Alberti, Vassari, Leonardo, among others — and consideration of their importance to the history of art and literary criticism, with special attention to the critical terminology used. Professor Selig. MW 11-12:15.

W4001x. Interrelations of Italian Literature and Culture.

The principal stages in the development of Italian literature examined in their historical interrelation with the arts. (W4002y, the second term of this course, is not given in 1974-75.) Professor Ragusa. Th 4:10-6.

GRADUATE COURSES

Certain graduate courses given in the University are open to qualified majors with the consent of the chairman of the department. These courses are described in the Bulletin of the Graduate School of Arts and Sciences.



Associate Professor

Joseph L. Malone¹ (Chairman; 412A Milbank Hall)

Assistant Professor

Lars-Alvar Jacobson (Acting Chairman, Autumn Term; 412B Milbank Hall)

Other officers of the University offering courses listed below:

Professor

Thomas Bever

Assistant Professors

Michael J. Reddy, Richard Wojcik

¹Absent on leave, Autumn Term.

The purpose of the study of linguistics is to develop understanding of the nature of language. The major is designed to provide the student with a broad appreciation of the fundamental problems of language analysis, some training in the techniques of linguistics research, as well as insight into the interrelations of linguistics with the other social and communicational sciences, the humanities, and philosophy and mathematics.

Required courses for the major in linguistics are (I) Linguistics V1101, V1102, V3203, V3206, V3901, and either V3301 or V3303, and (II) two courses in linguistics and/or post-intermediate language to be chosen in consultation with the adviser. In addition to these requirements each student must plan with the adviser a program of breadth and specialization studies. The two research papers prepared in association with V3901 and either V3301 or V3303 are jointly equivalent to the Senior Essay.

SV1101x, V1102y. Introduction to Linguistics.

The nature of language. Characteristics of phonological and grammatical systems and the lexicon. Evolution of language. Role of linguistics in related disciplines. Modern techniques of linguistic analysis. Linguistics V1101x is prerequisite to Linguistics V1102y. Section I. Professors Bever and Jacobson. Tu Th 11-12:15. Section II. Professors Bever and Reddy. Tu Th 7:40-8:55.

SV3203x. Synchronic Linguistics.

Varied approaches to problems in synchronic linguistics, selected to emphasize critical points in linguistic theory. Prerequisite: Linguistics V1101x, V1102y. Professor Wojcik. M W 11-12:30.

SV3206y. Historical Linguistics.

The principles of both historical and comparative linguistics, with some consideration of the role of philology. Prerequisite: Linguistics V1101x. Professor Malone. Tu Th 9:10-10:25.

SV3301y. The Structure of a Language.

Illustration of the principles of linguistic theory and analysis by application to the structure of a particular language. Topic for 1974-75: Transformational analysis of Swedish. No prior knowledge of Swedish is necessary. Prerequisite: Linguistics V1101, V1102. Professor Jacobson. W 2:10-4.

[SV3303x. Linguistic Analysis. Not given in 1974-75.]**V3901y. Seminar in Linguistics.**

Supervised research in the student's area of specialization; preparation of a research paper. Prerequisite: the linguistics major, and senior standing. Professors Malone and Jacobson. W 9-10:50.

W4502y. Generative Phonology.

Principles and analytic techniques of generative phonology; mutual relations of underlying representation and phonetic interpretation; formal and substantive aspects of phonological rules and of phonotactic conditions. Permission of the instructor required. Professor Malone. Th 10:35-12:15.

W4601x. Semantic Systems.

Specification of the goals of various theories of semantic structure, such as those of behaviorist psychology, mentalistic-rationalistic psychology, and analytic philosophy. Examination of the organization and meaningful structure in the framework of General Systems Theory (L. von Bertalanffy) and in the framework of Merleau-Ponty. Permission of the instructor required. Professor Jacobson. M 3:10-5.

OTHER LINGUISTICS COURSES

For full descriptions, please consult the Columbia College Bulletin.

W4004x. Linguistics and the Verbal Arts. Professor Austerlitz. M W 11.

W4104y. Theories of Grammar. Professor Diver. Th 2:10-4.

W4107x. Linguistic Geography. Professor Herzog. Tu 10-11:50.

W4108y. Principles of Historical Linguistics. Professor Castleman. W 2:10-4.

W4201x. Phonetics. Professor Austerlitz. M W 10.

W4202y. Theories of Phonology. Mr. Wojcik. W 12-2.

W4500x-W4501y. Generative Syntax. Professor Wojcik. Tu Th 12-1:30.

W4602y. Generative Issues in Semantics. Professor Wojcik. M 10-12.

W4751y. Topics in Soviet Linguistics. Professor Wojcik. Hours to be arranged.

W4801y. Language as Communication: Synchrony. Professor Diver. W 2:10-4.

W4802x. Language as Communication: Diachrony. Professor Diver. W 2:10-4.

W4901x. The Learner's Grammar and Language Teaching.

Mr. Juhasz. Th 3:10-4:50.

W4902y. Contrastive Grammar and the Teaching of English.

Mr. Juhasz. Th 3:10-4:50.

Anthropology V3033x. Sociolinguistics. Professor Attinasi. Tu Th 1:10-2:25.

Anthropology V3034x. Ethnolinguistics. Professor Attinasi. Tu Th 1:10-2:25.

Anthropology W4162x. Dialectology in Contemporary Society, II.

Professor Attinasi. Th 3:10-5.

URALIC LANGUAGES (Finnish and Hungarian)

Please consult the bulletins of the Graduate School of Arts and Sciences and the School of General Studies.

YIDDISH LINGUISTICS AND LITERATURE

Please consult the Columbia College Bulletin.

Mathematics

Professor

Joan S. Birman (Chairman; 514 Mathematics)

Assistant Professor

David Gieseke

Other officers of the University offering courses listed below:

Professors

Hyman Bass, Lipman Bers, Patrick X. Gallagher, Ellis Kolchin, Masatake Kuranishi, Edgar R. Lorch, Wilfried Schmid

Associate Professor

C. Herbert Clemens

Joseph Fels Ritt Assistant Professors

William Abikoff, Eugene Goldberg, Aroldo G. Kaplan, Ravindra S. Kulkarni, Douglas C. Ravel, Linda P. Rothschild, Bernard St. Donat, Richard Sharpe, Ivan Ernest Stux, David Tartakoff, Domingo Toledo, John W. Wood

The systematic study of mathematics begins with one of the following two-term sequences: V1101-V1102 (referred to below as Calculus IA, IIA), V1103-V1104 (Calculus IB, IIB), V1107-V1108 (Calculus IC, IIC), V1201-V1202 (Calculus IIIA, IVA), or Section II of V1203-V1204 (Calculus IIIB, IVB).

The A-sequence calculus is a standard course devoted to the differential and integral calculus. It is intended for students who need calculus primarily for its applications. The B- and C-sequence calculus courses cover the same basic material as the A-sequence. However, the B-sequence stresses more heavily the theoretical foundations, while the C-sequence stresses theory and in addition demands creative imagination and an unusual ability to think abstractly. Placement in Calculus I will be decided on the basis of an examination which will be given to all students registering for Calculus I. (However, students *not* seeking to enter Calculus IC, who have taken the Level I or Level II Mathematics Achievement Tests of the College Boards, will be excused from the placement test, and placed on the basis of their Achievement Test scores.) Students are advised to consult the bulletin board outside Room 404, Mathematics Building, three days before the start of classes to determine the times of the examination. Results will be posted on that same bulletin board shortly before the first class meeting.

Students who are not adequately prepared for any calculus course must take one of the non-credit offerings (see below) to make up their deficiencies in background.

Advanced placement is awarded on the following basis: A score of 3, 4, or 5 on the Advanced Placement Test in Calculus A-B earns credit for one course and admission to Calculus IIA or IIB. A score of 4 or 5 on the Calculus B-C exam earns credit for two courses and admission to the freshman section of IIIB. A score of 3 on the Calculus B-C exam earns credit for one course and admission to Calculus IIIB, as above, but with course credit to be increased to two courses upon successful completion of Calculus III with a grade of C or better. A freshman who qualifies for Calculus IIIB, and intends to major in mathematics, should consult a member of the department for individual advice about whether to enroll in IIIB or IC.

Students who major in mathematics are required to complete ten courses. These must include: Calculus I-IV (the B- or C-sequences are strongly advised), V3040-V3041, V4061-V4062. Students who are contemplating graduate studies in mathematics are also urged to take at least one semester of V3951-V3952, and to acquire a reading knowledge of two of the three languages: French, German, and Russian. All majors are encouraged to take courses in allied fields, such as physics, chemistry, mathematical statistics, and

computer science. None of these may be counted toward the ten courses required for a major in mathematics.

The major examination, in the senior year, is the Undergraduate Record Examination.

SV1001x-V1002y. Introduction to Basic Concepts of Mathematics.

A terminal course for students not intending to continue the study of mathematics. A glimpse into the world of mathematics and its applications. Although the material is elementary, it is approached from a thoroughly contemporary scientific point of view. Prerequisite: high school mathematics through intermediate algebra. Section I. Instructor to be announced. M W F 10. Section II. Professor Stux. Tu Th 6:10-7:25.

SV1101x, V1102y, or V1102x, V1101y. Calculus IA and IIA.

Functions. Limits, Derivatives. Examples. Applications (motion, curve tracing, maxima and minima). Mean value theorem. Integrals. Integration by parts and substitution. Applications (area, volume, length, work, energy). Elementary transcendental functions. Applications (radioactive decay, vibrations). Taylor's theorem with remainder. Prerequisite: trigonometry. V1101x, V1102y. Section I. Professors Bass, Kolchin, Kulkarni. M W F 11. Recitation sections: Tu or Th, 8 or 10 or 12 or 3 or 5. Section II. Instructors to be announced. M W 1:10-2:25. Recitation sections: M 2:40-3:55 or 4:10-5:25 or 8-9:15 p.m. or W 4:10-5:25. V1102x, V1101y. Instructors to be announced. Tu Th 6:10-7:25. Recitation sections: Tu 4:10-5:25 or Th 7:40-8:55 p.m.

SV1103x, V1104y. Calculus IB and IIB.

The same material as Course IA, IIA, with greater emphasis on the understanding of the mathematical concepts and the logical structure. Professors Gieseker and Sharpe. M W F 11. Recitation sections: Tu or Th, 8 or 12.

SV1104x, V1203y. Calculus IIB and IIIB.

Prerequisite: A course in differential calculus. Professor Toledo. M W F 11. Recitation Sections: Tu or Th, 8 or 12.

SV1107x, V1108y. Calculus IC and IIC.

The same material as Course IA, IIA. The terminology and style are thoroughly modern. Intended for students who have facility with discussion on an abstract level, or who appear likely to develop such facility early. Professor St. Donat. M W F 11.

SV1201x, V1202y, or V1202x, V1201y. Calculus IIIA and IVA.

Vector valued functions. Functions of several variables. Examples. Partial derivatives. Chain rule and the gradient. Multiple integrals. Various coordinates. Line and surface integrals. Vector analysis. Infinite series. Power series. Applications. Prerequisite: Calculus II for IIIA, III for IVA. V1201x, V1202y. Section I. Professors Schmid and Wood. Tu Th 11-12:15. Recitation sections: M or W, 8 or 12. Section II. Professor Abikoff. Tu Th 1:10-2:25. Recitation sections: Tu 2:40-3:55 or Th 4:10-5:25. V1202x, V1201y. Instructor to be announced, Tu Th 6:10-7:25. Recitation sections: Tu 7:40-8:55 or Th 4:10-5:25.

SV1203x, V1204y. Calculus IIIB and IVB.

The same material as Calculus IIIA, IVA, with greater emphasis on the understanding of the mathematical concepts and the logical structure. Prerequisite: Calculus IIB or the equivalent for IIIB, Calculus IIIB for IVB. Section I. Professor Goldberg. Tu Th 11-12:15. Recitation sections: M or W, 8 or 12. Section II. Instructor to be announced. M W F 11. (Freshman section). Recitation sections: Tu or Th, 8 or 12.

SV1204x. Calculus IVB.

Prerequisite: Calculus IIIB. Professor Kulkarni. Recitation sections, M or W, 8 or 12.

Mathematics

SV1207x, V1208y. Calculus IIIC and IVC.

The material of Calculus IIIA, IVA, plus additional topics, as time permits. The terminology and style are thoroughly modern. Prerequisites: Calculus IIC for IIIC, Calculus IIIC for IVC. Professor Kuranishi. Tu Th 11-12:15.

SV2040y. Number Theory.

Congruences, quadratic residues, Gaussian sums. Number-theoretic functions. Distribution of primes. Irrational, algebraic, and transcendental numbers. Prerequisite: Calculus II. Professor Stux. Tu Th 9:10-10:25.

[V2050x. Group Theory. Not given in 1974-75.]

V3005x, V3006y. Advanced Calculus for Science Majors.

Completion of the basic calculus sequence with the essential groundwork for applications to physics and engineering. Elements of linear algebra. Power series. Taylor expansions. Chain rule. Change of variables in multiple integrals. Line and surface integrals. Green's and Stokes' theorem. Implicit function theorem. Differentiation of series and integrals. Orthogonal expansions: Fourier series, Legendre polynomials, Bessel functions. Complex analysis: Cauchy-Riemann equations, Cauchy theorem, Residue theorem with applications to contour integrations. Prerequisite: Calculus IV. Professor Rothschild. Tu Th 2:40-3:55.

SV3007x. Complex Variables.

An elementary course in functions of a complex variable. Complex numbers, analytic functions, Cauchy-Riemann equations. Cauchy integral theorem, Taylor and Laurent series, poles and essential singularities, conformal mapping. Professor St. Donat. M W 1:10-2:25.

V3010x. Fundamental Concepts of Mathematics.

The groundwork on which almost all modern mathematics rests. Sets, mappings, relations, ordered sets, well-ordering, natural numbers, cardinal numbers, ordinal numbers, choice functions, Zorn's lemma, induction, real and complex numbers. Prerequisite: Calculus IV and at least one 3000 course. Instructor to be announced. M W 10.

SV3027x or y. Differential Equations.

Solutions of ordinary differential equations: linear equations with constant coefficients, series solutions at regular and singular points. Boundary value problems. Qualitative theory of nonlinear equations. Selected applications. Prerequisite: Calculus IV or equivalent. Autumn Term: Instructor to be announced. Tu Th 6:10-7:25. Spring Term: Instructor to be announced. M W F 10.

V3028y. Partial Differential Equations.

Introduction to partial differential equations. First-order equations. Linear second-order equations; separation of variables, solution by series expansions. Boundary value problems. Further topics chosen by the instructor. Prerequisite: Course V3027x or equivalent. Instructor to be announced. Tu Th 6:10-7:25.

V3040x, V3041y. Introduction to Modern Algebra.

Introduction to groups, rings, fields, with examples. Polynomials, algebraic number fields, the Galois theory and applications. Prerequisite: Calculus IV or consent of instructor. Professor Sharpe. M W 2:40-3:55.

W4061x, W4062y. Introduction to Modern Analysis.

The real numbers. Metric spaces. Elements of general topology. Continuous functions. Implicit function theory. Measure and integration. Change of variables in integration. Banach spaces and Hilbert spaces. Bounded operators. Examples and applications. Further topics chosen by the instructor. Prerequisite: Calculus IV or the equivalent. Professor Gallagher. M W 4:10-5:25.

V3202y. Linear Algebra.

Vector spaces, linear transformations, matrices, quadratic forms. Prerequisite: Calculus II or the equivalent. Professor Goldberg. Tu Th 10, W 12.

V3375x. Geometric Topology.

Elementary combinatorial properties of polyhedra. The fundamental group; elementary homology theory and related invariants. Topology of surfaces and their classification. Prerequisite: Calculus IV and V3040 or the equivalent. Instructor to be announced. Tu Th 4:10-5:25.

V3386y. Differential Geometry.

Local and global differential geometry of submanifolds of Euclidean 3-space. Frenet formulas for curves. Various types of curvatures for curves and surfaces and their relations. The Gauss-Bonnet theorem. Prerequisite: Calculus IV or equivalent. Instructor to be announced. Tu Th 4:10-5:25.

V3901x-V3902y. Supervised Readings in Mathematics.

Guided reading and study in mathematics. A student who wishes to undertake individual study under this program must present a specific project to a member of the staff and secure his willingness to act as sponsor. Written reports and periodic conferences will be required. Permission of the Chairman and of the staff member who agrees to act as sponsor are required. The staff. Hours to be arranged.

V3951x-V3952y. Undergraduate Seminars in Mathematics.

The subject matter is announced at the start of registration and is different in each section. Each student prepares talks, to be given to the seminar, under the supervision of a faculty member or senior teaching fellow. Students may receive credit for more than one section and may take the course more than once. Prerequisite: two years of calculus and at least one year of additional mathematics courses, and the permission of the departmental representative. Professor Abikoff and staff. Hours to be arranged.

Computing Science W3001x. Introduction to Computing Science.

Basic programming skills and their use in such applications as teaching, literature, law and political science. Emphasis on learning to recognize the kinds of problems amenable to computer solution. Data simulation, learning machines, and compilers. Problems for solution on a computer teletype in the language BASIC. Primarily, but not exclusively, for students in the humanities and social sciences. Laboratory fee: \$15. Instructor to be announced. M W 1:10-2:25.

Computing Science W3002y. Computing and Finite Mathematics.

Introduction to mathematical programming methods, both for natural sciences and social sciences. Numbers and their representations, equation solving, numerical integration, matrix inversion. Simulation, linear programming. Information processing, sorting, retrieval and list structures. No prior computing experience necessary. Prerequisite: one term of calculus or permission of the instructor. Professor Gross. M W 1:10-2:25.

Mathematical Statistics G4105x. Probability.

Fundamentals; random variables and distribution functions in one or more dimensions; the binomial, normal, and Poisson distributions; combinatorial problems; moments and characteristic functions; stochastic convergence and the law of large numbers; addition of random variables and limit theorems; the chi-square, t , and F distributions. Prerequisite: Calculus IV. M W 5:40-6:55.

Mathematical Statistics G4107y. Statistical Inference.

Principles of statistical decision procedures. Point estimation. Unbiased consistent, efficient, and sufficient estimates. Method of maximum likelihood. Testing hypotheses. Normal, binomial, and Poisson distributions. Prerequisite: G4105. M W 5:40-6:55.

Mathematics

GRADUATE COURSES

Certain graduate courses given in the University are open to qualified majors with the consent of the major adviser. These courses are described in the Bulletin of the Graduate School of Arts and Sciences.

NO CREDIT OFFERINGS

The following courses are offered without credit toward the degree.

V0075x or y. Basic Techniques, I.

An intensive introduction to basic algebra. Students proceed at their own pace, receiving classroom, audio-visual, and individual instruction. The Staff. Section I. M W 5:30-6:20. Section II. Tu Th 3:30-4:20. Section III. Tu Th 5:30-6:20. Section IV. Tu Th 7:00-7:50.

V0076x or y. Basic Techniques, II.

A course in basic algebra for students with some facility in mathematics. An introduction to solving both algebraic and verbally formulated problems. Prerequisite: some knowledge of high school algebra as shown on the Calculus I placement test, or V0075 or its equivalent. The Staff. Section I. M W 7:00-7:50. Section II. Tu Th 3:30-4:20.

V0077x or y. Pre-calculus.

This course is intended primarily for students seeking further scientific training. Elements of trigonometry and advanced algebra; notions of mathematical proof; functions. Prerequisite: knowledge of basic algebra as demonstrated by the Calculus I placement test, or completion of V0076 or its equivalent, or recommendation of the instructor of V0075. The Staff. Section I. M W 3:30-4:20. Section II. Tu Th 5:30-6:20. Section III. Tu Th 7:00-7:50.



Medieval and Renaissance Studies

This program is supervised by the Committee on Medieval and Renaissance Studies:

Professor of Italian

Maristella Lorch, Chairman

Professor of Art History

James Beck

Professor of English

Barry Ulanov

Professor of History

John Mundy

Professor of Philosophy

Paul O. Kristeller

Associate Professor of English

Joan Ferrante

Associate Professor of French

Tatiana Greene

Associate Professor of Greek and Latin

Lydia Lenaghan

Associate Professor of History

Suzanne Wemple¹

Assistant Professors of English

Lois A. Ebin (Adviser), Anne Prescott

Assistant Professor of Religion

Elaine Pagels

¹ Absent on leave, 1974-75.

It will be supported by a University-wide group of consultants.

The purpose of this program is to provide an understanding of Medieval and Renaissance civilizations on the basis of interdisciplinary studies. Students will take related courses in various departments. The programs will be set up *individually* with particular emphasis on one of the disciplines: art history, history (which will combine Medieval and Renaissance Studies), one or more of the literatures, philosophy, romance philology, music, or religion.

Prerequisite for Medieval Studies: History 3. The Early Middle Ages, and History 4. The High Middle Ages.

Prerequisite for Renaissance Studies: History 4. The High Middle Ages, and History 13. The Italian Renaissance in the Fifteenth and Sixteenth Centuries, or depending on the field of concentration, History 13. The Renaissance, and History 14. The Reformation in Europe in the Sixteenth Century.

Language requirement for Medieval Studies: A reading knowledge of one Romance or Germanic language. In special cases students may petition for another language. Students are expected to acquire a reading knowledge of Medieval Latin before graduation. (See Course 13-14 and Latin 33y.)

Language requirement for Renaissance Studies: A reading knowledge of two languages, preferably Latin and Italian, must be acquired before graduation.

Medieval and Renaissance Studies

Required courses: A minimum of eight one-semester courses within the general area of Medieval or Renaissance civilization, including courses listed below. Of these, at least three or four must be advanced courses in the field of concentration.

Students should consult mimeograph list of relevant courses.

[1-2. Introductory Seminar: The Restoration of Antiquity and the Revival of Letters.

Not given in 1974-75.]

History-Italian V3199x. Petrarch's World.

Petrarch and the classics, the vitality of the Pagan and Christian heritage in Petrarch. His concept of imitation as emulation. The eulogy of ignorance. Introduction to research on special topics (friendship, old age, solitary life, political commitment, *virtues*.) Professor Lorch. Tu 4:10-6.

13-14. Junior Readings.

Readings in the original material from various disciplines, focusing both on language skill and analysis of content. Majors must achieve an average of B over two semesters. If not, one or two additional semesters are required. Qualified students may take Latin 33y after Medieval and Renaissance Studies 13. Dr. Kostka. M 5-6:30, Th 3:30-5.

Latin 533y. Medieval Literature.

A survey of representative late Latin and Medieval texts; readings from the Church Fathers, sacred and secular lyric, history, romance, satire, and biography. Practice in paleography. Permission of the instructor required. Professor Lenaghan. M W F 1:10.

90. Senior Seminar.

A close examination of texts central to the continuity and reappraisal of Medieval and Renaissance traditions. Selections from Augustine, Macrobius, Alain De Lille, Jean De Meung, Pico, Erasmus, Montaigne. Readings will be linked to the student's experience in various fields and will provide a context for the preparation of a senior thesis which reflects the interdisciplinary aim of the program.

Preliminary work on the thesis is to be done in the preceding semester in a colloquium or senior-level seminar in the student's special discipline (e.g., English 97, I or II), selected during the spring term of the junior year in consultation with the instructor of Course 90. Professor Ebin. Tu 4:10-6.

Professor

Hubert Doris

Associate Professor

Patricia Carpenter (Chairman; 703 Dodge Hall)

Associate in Music

Gregg Smith

Instructor

Peter Schubert

Other officers of the University offering courses listed below:

Professors

Jack Beeson, Chou Wen-Chung, Joel Newman, Ernest H. Sanders, Howard Shanet, Denis Stevens, Valdimir Ussachevsky

Associate Professors

Dieter Christensen, Christoph Wolff

Assistant Professors

George Dodge, Walter Hilse, Israel J. Katz, Joel Sachs

Lecturers

Christopher Hatch, Jacques-Louis Monod, Piero Weiss

Instructors

Nicolas Roussakis, Richard Taruskin

Teaching Staff in Applied Music

Roger Nierenberg, University Band

Howard Shanet, University Orchestra

A major in music is designed to integrate music as an art and a craft within the framework of the liberal arts.

A student intending to major in music should start with Courses V2100x and V3123x as early as possible. Course 1-2, though a prerequisite for more advanced literature courses, is not required of music majors, since they cover the same type of material in greater depth in the courses already required of them.

A major in music is required to take the following courses: V2100-V2101, V2300-V2301, V2303, V2305, V3123, V3124, V3125, V3126, V3179-V3180 and V3373-V3374. Applied music (a maximum of one course) may be counted toward the degree but is not required.

Other fields: A reading knowledge of German, Italian, or French is required. Students planning to do graduate work in musicology, or ethnomusicology, must know at least two foreign languages, including German and French. Courses in art history, history, philosophy, literature, and foreign languages are recommended for their relationship with musical studies, and should be elected after consultation with the department.

Students are advised to consult the Bulletin of the Graduate School of Arts and Sciences for those courses open to seniors and others with advanced training.

At the end of the sophomore year students planning to major in music will be expected to file with the department certificates stating that they have passed an examination in elementary piano. A student found deficient in piano techniques is required to take supplementary piano lessons. If she is unable to pay for such lessons herself, she should consult the Director of Financial Aid. As with other applied music activities, these lessons will carry the equivalent of one quarter academic credit per semester.

Majors must have participated for two years in the chorus, orchestra, choir, concert band, collegium musicum, chamber music, or other musical ensembles by the time they are graduated.

A senior major is required to prepare a research paper or project, to be planned in consultation with her adviser no later than the beginning of the senior year.

The Program in the Arts: Those students contemplating a career in performance or composition should see the announcement on the Program in the Arts, pages 56-58, and should consult with Professor Doris at the earliest possible time.

Practice rooms: The department provides practice rooms at a nominal charge. Preference in assigning hours is given in order of application to music majors and those enrolled in courses given by the department. Application for practice time should be made at the Office of Buildings and Grounds, Milbank Hall: during registration and the first week of classes by music majors, and by all others during the week following.

Library: Books, scores and records are available at the Barnard College Library. The Columbia University Music Library contains an extensive collection of music materials for reference, research, and circulation. In addition, phonographs with a large collection of recordings are also available for use by students registered in music courses other than Course 1-2.

LITERATURE AND HISTORY

§1-2. An Introduction to Music.

A study of the elements of musical structure designed to form intelligent listening habits, and of the several great epochs of music, with emphasis on their style and structure. No previous knowledge of music is required. This course is not designed for students majoring in music. Professor Doris and Mr. Schubert. Section I. M W F 2:10. Section II. Tu Th 10:35-11:50.

SV1004x. Literature of the Pianoforte.

Selected works of piano music from the eighteenth century to the present. Prerequisite: Course 1-2 or the equivalent. Professor Sachs. M W 2:10-4. One hour is a listening hour.

SV1005x. The Opera.

A survey of the development of opera from Monteverdi to the present. Prerequisite: Course 1-2 or the equivalent. Professor Beeson. M W 3:10-5. One hour is a listening hour.

SV1006y. The Symphony.

A survey of symphonic style and structure from 1750 to the present. Prerequisite: Course 1-2 or the equivalent. Professor Sanders. M W 3:10-5. One hour is a listening hour.

SV1007x. Music of the World's Peoples.

An introduction to musical practices of the world, excluding the tradition of Euro-American classical music. Prerequisite: Course 1-2 or the equivalent. Instructor to be announced. Tu Th 1:10-3.

SV1008y. Twentieth Century Music.

A survey of contemporary music from the late 19th century to the present. Prerequisite: Course 1-2 or the equivalent. Instructor to be announced. M W 3:10-5. One hour is a listening hour.

SV1015y. American Music.

A survey of music in America from Colonial times through the 1950's. Attention is given to the interrelationships among folk, "entertainment," and art music. Prerequisite: Course 1-2 or equivalent. Professor Newman. Tu Th 2:10-4. One hour is a listening hour.

V1021x. Debussy and Impressionism.

Debussy's principal works examined in the light of his stylistic development and musical environment. Prerequisite: Music 1-2 or the equivalent. Professor Doris. M W 3:10, F 3:10-5. One hour is a listening hour.

V1617x. Electronic Music: Its Evolution and Techniques.

A comprehensive survey of electronic music from 1948 to 1968, with detailed analysis of compositional techniques and their evolution and application by various groups and individual composers. Technical procedures employed in creating sound materials are discussed. Prerequisite: Music V2101 or the equivalent and written permission of the instructor. Professor Ussachevsky. Tu Th 4:10-5:25.

[**SV3021y. Schoenberg.** Professor Carpenter. Not given in 1974-75.]

SV3042. Aesthetic Disciplines in Music.

Basic concepts in aesthetics are applied to music; the resulting problems in describing, explaining, and evaluating music are examined. Permission of the instructor required. Professor Carpenter. Tu Th 2:40-3:55.

V3123x. History I.

Western music to the early sixteenth century. Prerequisite or corequisite: Music V2100 or the equivalent. Section I. Professor Sanders. M W 1:10-3. One hour is a listening hour. Section II. Mr. Taruskin. Tu Th 5:40-7:30. One hour is a listening hour.

V3124y. History II.

Western music from the early sixteenth to the end of the seventeenth century. Prerequisite: Music V3123 or permission of the instructor. Section I. Professor Stevens. M W 1:10-3. One hour is a listening hour. Section II. Professor Newman. Tu Th 5:40-7:30. One hour is a listening hour.

V3125x. History III.

Western music from the end of the seventeenth century to the early nineteenth century. Prerequisite: Music V3124 or permission of the instructor. Section I. Professor Hilse. M W 3:10, F 3:10-5. One hour is a listening hour. Section II. Professor Newman. Tu Th 5:40-7:30. One hour is a listening hour.

V3126y. History IV.

Western music from the early nineteenth century to the mid-twentieth century. Prerequisite: Music V3125 or permission of the instructor. Section I. Professor Doris. M W 3:10, F 3:10-5. Section II. Professor Sachs. Tu Th 5:40-7:30. One hour is a listening hour.

V3179x-V3180y. Seminar. Historical and Analytical Studies in the Literature of Music.

Required seminar for senior majors to supplement and coordinate previous studies. Prerequisite: three years of the theory sequence, two years of the history sequence, and Music V3373-V3374, or written permission of the instructor. V3179x. Section I. Professor Carpenter. Th 3:10-5. Section II. Mr. Hatch. W 3:10-5. V3180y. Section I. Professor Doris. Th 4:10-6. Section II. Professor Beeson. W 3:10-5.

THEORY

V1329x, y. Musicianship.

The basic elements of music are studied with the aim of developing musicianship. Prerequisite: Placement examinations will be given at the first class meeting. Professors Katz, Sachs, and Mr. Schubert. Tu Th 4:10-5:25.

Music

All students taking the Music Theory sequence (V2100 through V2305) must take a placement examination in ear-training, and must satisfy the ear-training requirement either through the placement examination or the completion of the Ear-training sequence V2000 through V2003. These courses do not carry credit toward the degree.

V2000x and y. Ear-training, Level I.

Intervals, rhythms, and melodic lines, for dictation and sight-singing. Instructor to be announced. Tu Th 9.

V2001x and y. Ear-training, Level II.

Three- and four-tone chords and simple passages, for dictation and sight-singing. Prerequisite: V2000 or equivalent achievement in the ear-training placement examination. Instructor to be announced. Tu Th 9.

V2002x and y. Ear-training, Level III.

Cadences and chord progressions, for dictation and sight-singing. Prerequisite: V2001 or equivalent achievement in the ear-training placement examination. Instructor to be announced. Tu Th 9.

V2003x and y. Ear-training, Level IV.

Modulations and extended musical passages, for dictation and sight-singing. Prerequisite: V2002 or equivalent achievement in the ear-training placement examination. Instructor to be announced. Tu Th 9.

V2100x-V2101y. Theory I and II.

Principles of counterpoint; modal species counterpoint. Diatonic harmony. Permission of the instructor required. Corequisite: appropriate level of ear-training sequence (until completion of sequence), as indicated by placement examination. Section Ia. Professor Dodge. M W F 1:10. Section Ib. Mr. Schubert. M W F 1:10. Section Ic. Instructor to be announced. M W F 1:10. Lab. M W 2:10. Section IIa. Mr. Hatch. M W 5:40-6:55. Section IIb. Instructor to be announced. M W 5:40-6:55 Lab. M W 7:10.

V2300x-V2301y. Theory III and IV.

Tonal counterpoint, including double counterpoint, canon, and fugue. Chromatic harmony. Prerequisite: V2100-V2101 or the equivalent. Corequisite: appropriate level of ear-training sequence (until completion of sequence), as indicated by placement examination. Sections assigned by Professor Carpenter. Section I. Professor Carpenter. Tu Th 1:10-2:25. Section IIa. Professor Hilse. M W F 10. Section IIb. Instructor to be announced. M W F 10. Section III. Instructor to be announced. Tu Th 4:10-5:25.

V2303x. Theory V.

Twentieth-century musical practices, including investigation of coherence in non-tonal music. Prerequisite: V2300-V2301 or the equivalent. Corequisite: appropriate level of ear-training sequence (until completion of sequence), as indicated by placement examination. Section Ia. M W 4:10-5:25. Section Ib. M W 4:10-5:25.

V2305y. Theory VI.

Analysis. Principles of design, texture, rhythm, and the organization of musical detail as revealed through a study of compositions selected from several periods of music history. Prerequisite: V2303 or equivalent. Corequisite: appropriate level of ear-training sequence (until completion of sequence), as indicated by placement examination. Section Ia. Mr. Hatch. M W 4:10-5:25. Section Ib. M W 4:10-5:25.

V3239x-V3240y. Composition.

Composition in the smaller forms, for voice, chorus, piano, organ, and pieces for violin or other instruments with piano. One course credit is given for the two semesters. Prerequisite: V2301 or written permission of the instructor. Professor Beeson. Th 1:10-3.

V3241x-V3242y. Advanced Composition.

A continuation of Music V3239x-V3240y. Prerequisite: V3239x-V3240y and permission of the instructor. Instructor to be announced. Tu 10-11:50.

V3373x-V3374y. Orchestration, Conducting, and Score-Reading.

Lectures and practice in orchestration and score-reading, supplemented by practical demonstrations of instruments. Prerequisite: V2101 or the equivalent. Section Ia. Professor Hilse. M W F 11. Section Ib. Mr. Roussakis. M W F 11. Section II. Instructor to be announced. Tu Th 5:25-6:40.

PERFORMANCE ACTIVITIES (APPLIED MUSIC)

A detailed description of the following activities is given in **A Guide to Barnard**.

Academic credit, granted by petition at end of the semester, amounting to one quarter of a course per semester is given for participation in the following activities, with the exception of Music for an Hour.

Audition and rehearsal schedules for all activities will be posted outside the Columbia departmental office, at least a week before registration.

UNIVERSITY ORCHESTRA AND CHAMBER MUSIC.

Professor Shanet and staff. Auditions: during registration week by appointment, Room 703 Dodge. Rehearsals: M 5:30-7:30 on the stage of McMillin Theatre, and M W F 5:30-7:30 in the three weeks preceding each concert.

BARNARD-COLUMBIA CHORUS.

Mr. Smith. Rehearsals: Th 6-8 p.m. in Room 405 Milbank Hall.

UNIVERSITY BANDS.

Mr. Nierenberg. Auditions: Concert Band, during registration week and by appointment. Rehearsals: Tu Th 4-6.

COLLEGIUM MUSICUM.

This organization acquaints the student with certain neglected and unfamiliar masterpieces of vocal and instrumental music not heard in concerts elsewhere. Music majors are particularly urged to attend the meetings and to participate in performances.

MUSIC FOR AN HOUR.

This series of informal chamber concerts, held the last Tuesday in every month in the James Room of Barnard Hall, is designed to give all interested instrumentalists a chance to perform for the University community. All those interested in participating should consult the department.

Oriental Studies

Professor

John Meskill (Chairman, 321A Milbank Hall)

Associate Professor

Barbara Stoler Miller¹

Other officers of the University offering courses listed below:

Professors

Wm. Theodore de Bary, Arthur Danto, Ainslie T. Embree, Chih-Tsing Hsia, Burton Watson¹

Visiting Professor

J. Mason Gentzler

Associate Professors

Kathleen Burrill, H. Paul Varley, Herschel F. Webb

Senior Lecturer

Jeanette Wakin

Assistant Professors

David Johnson, Krikor Maksoudian, James M. Polachek, Theodore Riccardi, Jr., Frederick Underwood.

¹ Absent on leave, 1974-75.

Oriental Studies aims to provide, by means of the first three courses listed below, an introduction to major aspects of four living Asian civilizations. These courses are designed for any student, whatever her major, who wishes to include knowledge of Asia in her education.

Foreign Language Requirement for the Degree: The satisfactory completion of one of the following courses offered in the departments of East Asian Languages and Cultures and Middle East Languages and Cultures satisfies the requirement in the respective languages: Akkadian G4204y, Arabic W1122y, Armenian W1124y, Chinese G4006y, Hebrew W1122y, Hindi F1122y, Japanese W4006y, Persian W1122y, Sanskrit G6102y, or Turkish W1122y.

Literature courses in the departments of East Asian Languages and Cultures and Middle East Languages and Cultures in which readings are in the original languages may be used to fulfill the Barnard general requirement (2) only with the permission of the Chairman of Oriental Studies.

Students who wish to enter Chinese or Japanese language courses above the introductory level **must** pass a language placement test before registering. Placement exams are given during the week **before** classes begin—contact Department of East Asian Languages and Cultures (407 Kent) for exact dates. For placement above the introductory level in Arabic, Hebrew, Persian, Sanskrit, or Turkish, contact Department of Middle East Languages and Cultures (609 Kent).

Majors in the program will be prepared for further study in graduate school or some related professional training. They will concentrate on one of the following regions or countries: the Middle East, India, China, or Japan.

The Middle East.

(a) As a prerequisite, to be completed by the end of the sophomore year, Oriental Civilizations V3001x-V3002y.

(b) Four to six courses of Arabic, Persian, Turkish, or Armenian; details to be explained by the adviser.

(c) Four additional courses on the Middle East, to be chosen in consultation with the adviser.

(d) One course in supervised readings, to be arranged in consultation with the adviser.

India, China, or Japan.

(a) As a prerequisite, to be completed by the end of the sophomore year, Oriental Civilizations V3355x-V3356y, or any two of the following courses: Oriental Civilizations V3357x, V3359y, V3361x.

(b) Four to six courses of an appropriate Oriental language; details to be explained by the adviser.

(c) Two courses on India, China, or Japan in one discipline, e.g., Anthropology, History, Literature, Political Science, Religion. To be chosen from offerings in Oriental Studies, as well as in the departments of East Asian Languages and Cultures, Middle East Languages and Cultures, Anthropology, History, etc.

(d) Two more courses above the introductory level in the same discipline as chosen under subsection (c), for training in the discipline; to be chosen in consultation with the adviser.

(e) Two courses chosen from readings, seminar, and independent study offerings, or one of these and a year of Oriental Humanities V3399x-V3400y.

Majors in the program come under the administration of the Committee on Foreign Area Studies. For admissions procedures and other details, see page

Oriental Civilizations SV3355x-V3356y. Introduction to the History and Culture of Oriental Societies.

The more important factors in the life of people of India, China, and Japan, and an appraisal of their role in the world today. Autumn Term: The evolution of these civilizations to recent times, emphasizing their characteristic institutions and intellectual traditions. Spring Term: Developments in the nineteenth and twentieth centuries as these societies have confronted the problems of modernization. Fourth hour: Lectures and audio-visual illustrations. Prerequisite: One course in history or permission of the instructor. Professors Meskill, Riccardi, and Varley. M W F 11. Fourth hour W 12.

Oriental Civilizations SV3357x. Introduction to the Civilization of India.

Professor Embree. Tu 10-12. Third hour to be arranged.

Oriental Civilizations SV3359y. Introduction to the Civilization of China.

Professor Meskill. Th 2:10-4. Third hour to be arranged.

Oriental Civilizations SV3361x. Introduction to the Civilization of Japan.

Professor Webb. Th 2:10-4. Third hour to be arranged.

Oriental Humanities SV3399x-V3400y. Colloquium.

A reading and discussion of major works of Oriental literature, social philosophy, and religion which have helped shape the view of man, the human condition, disciplines of self-cultivation, and man in society in the Islamic world, India, China, and Japan. The Autumn Term will deal with works from the Near East and India; the Spring Term with readings from China and Japan. Open to juniors and seniors who have completed two courses of literature and one course of philosophy or religion, or have written permission of the instructor. Professors Johnson, Meskill, Underwood, Wakin, and staff. Section I. Tu 2:10-4. Section II. W 4:10-6.

Oriental Civilizations V3001x-V3002y. Introduction to Islamic Civilization.

Autumn Term: An examination of Islamic civilization. Its institutional and intellectual characteristics to A.D. 1800. Spring Term: Important factors, such as the impact of the

Oriental Studies

West and nationalism, on the Islamic peoples from 1800 to the present. Professor Maksoudian. Hours to be arranged.

Oriental Studies V3004y. Islamic Literature in Translation.

An introduction to Islamic literature. Selected readings of classical, folk, and modern works tracing the evolution of literary and cultural traditions among Arabs, Turks, Persians, and other Islamic peoples. Professor Burrill. Th 12-2.

[**Oriental Studies V3379x. Readings in Oriental Studies.** Not given in 1974-75.]

[**Oriental Studies V3402x. Mythologies of Southern Asia.** Not given in 1974-75.]

[**Oriental Studies V3403y. Forms of Art in India.** Not given in 1974-75.]

Oriental Studies V3501x-V3502y. Seminar in Asian Literature.

Autumn Term: Selected themes of Chinese, Japanese, and Indian poetry. Spring Term: Selected topics in the contemporary literature of China, Japan, India, and the Near East. Permission of Department Chairman required. Professor Gentzler. Tu 2:10-4.

Oriental Studies V3507x, V3508y. Seminar on Comparative Studies in Asian Civilizations.

Autumn Term: Concepts of Asia in European and Asian social and historical thought. Spring Term: Studies in the modernization of the traditional societies of China, Japan, and India. Permission of Professor Varley required. Professors Polachek and Varley. W 2:10-4.

Oriental Studies V3509y. Oriental Thought.

A colloquium on some major systems of Oriental thought, considered as definitions of forms of life and theories of the world through which a philosophical appreciation may be achieved for the relationships between moral language and the language used to describe the world. Permission of either instructor required. Professors Danto and Embree. W 4:10-6.

Oriental Studies V3998x, V3999y. Independent Study.

Specialized reading and research projects will be planned in consultation with members of the Oriental Studies teaching staff. Open to majors who have fulfilled basic major requirements on written permission of the staff member who will supervise the project. Hours to be arranged.

General courses related to Oriental Studies:

Anthropology V3031x. Village India.

Professor Klass. Tu Th 2:40-3:55.

Political Science 24. Asian Politics.

Professor Dalton. Tu Th 10:35-11:50.

Religion V1102x or V1102y. Introduction to the Study of Religion: Eastern Religions.

See section assignments.

Also note offerings under Eastern Religions in the Religion Department.

ORIENTAL LANGUAGE COURSES

Language courses are offered through the departments of East Asian Languages and Cultures and Middle East Languages and Cultures. Consult the listings of these departments in the Columbia College and Graduate School of Arts and Sciences bulletins for detailed descriptions of courses. Three or more years of language instruction, beginning at the elementary level, are offered in Arabic, Armenian, Chinese, Hindi-Urdu, Japanese, Persian, Sanskrit, Turkish.

GRADUATE COURSES

Certain graduate courses given in the University may be taken by majors, with the consent of the major adviser, to supplement department offerings. Listed below are area courses frequently appropriate for this purpose. Consult the bulletin of the Graduate School of Arts and Sciences for details and further listings.

East Asia:

Chinese G4031-G4032. Chinese Literature. Professors Hsia and Watson.

Chinese G6027-G6028. Introduction to Chinese Thought. Professor de Bary.

Chinese-History G6815-G6816. Introduction to the Civilization of China.
Professor Bielenstein.

Chinese-History G6825-G6826. History of Modern China. Professor Polachek.

Japanese G4031 and G4032. Japanese Literature. Professor Keene.

Japanese G6027-G6028. Introduction to Japanese Thought. Professor de Bary.

Japanese-History G6832 and G6833. Early and Medieval Japan.
Professors Morris and Varley.

Japanese-History G6834. The Tokugawa Period. Professor Webb.

Japanese-History G6839 and G6840. Modern Japan. Professors Webb and Tiedmann.

Korean-History G6031. History of Korea. Professor Ledyard.

Korean-History G6033. History of Modern Korea. Professor Ledyard.

Southern Asia:

History G4826y. History of Modern South Asia. Professor Embree.

History G8856x. Colloquium on Religion and Social Change in Modern South Asia.
Professor Embree.

History W4851-W4852. Modern History of Southeast Asia. Professor Roff.

Indic G4102. History and Cultures of the Himalayan Area. Professor Riccardi.

Indic-Religion G4444-G4445. Ancient and Classical Indian Philosophy.
Professor Wayman.

Religion G4333-G4334. Early and Later Indian Buddhism. Professor Wayman.

Middle East:

History W4453-W4454. Byzantine History, 330-1453. Professor Garsoian.

Islamic G4603. Institutions of Islam. Professor Wakin.

Islamic G4206. Modernist Thought in the Islamic World. Professor Madina.

Middle East G4503-G4504. Cultural History of the Middle East. Professor Menges.

Persian G4602. Introduction to Persian Literature. Professor Yar-Shater.

Philosophy

Professors

Joseph Gerard Brennan, Sue Howard Larson, Mary Mothersill (Chairman; 326D Milbank Hall)

Assistant Professors

Jeffrey Miles Blustein, Onora Sylvia Nell

Lecturer

Stephen Roger Munzer

The major in philosophy is designed to develop competence in techniques of conceptual analysis and to acquaint the student with the major areas for investigation in traditional and contemporary philosophic theory.

Within the limits of the prerequisites described below, philosophy courses may be taken in any sequence: the numbers assigned to particular courses indicate roughly the level of competence expected of students. (Transfer students who wish to count courses taken elsewhere as prerequisites for Barnard courses must have written permission from the Chairman of the Philosophy Department and may be required to take a placement test.)

A student who majors in philosophy is required to take the following courses or their equivalents: 1; 6; 9 or 77; two courses in the history sequence, 35, 36, 37, 61; one elective course; and in the senior year, the seminar, 87-88. Philosophy majors are urged to satisfy the logic requirement as early as possible and must do so no later than the Spring Term of their junior year.

§1x (or 1y). Introduction to Philosophy.

Interpretation and analysis of major topics in ethics, metaphysics, theory of knowledge. Readings from historical and contemporary sources. Section I. Professor Mothersill. M W F 9. Section II. Professor Brennan. M W F 10. Section III. Professor Larson. M W F 11. Section IV. Professor Blustein. Tu Th 10:35-11:50.

§6. Logic.

Presented as a formal science, logic will be distinguished from the methodology of the empirical sciences. Analysis of the formal elements of classical logic will be followed by an introduction to symbolic logic. Professor Brennan. M W F 1:10.

§9. Ethics.

An introduction to the central problems of moral philosophy. Among the topics covered are: action and reasons for action; pleasure and pain; obligation, rights and duties; alternative moral ideals; the use of moral language. Prerequisite: Course 1 or permission of the instructor. Professor Mothersill. Tu Th 10:35-11:50.

§29. Philosophy of Law.

A study of some legal concepts and their relations to ethical theory. Topics to be discussed: the nature of legal rights; types of law in a legal system; principles of legal reasoning; morality and the law; the enforcement of morality; civil disobedience. Readings from Fuller, Hart, Kelsen, and other contemporary authors. Prerequisite: Course 1 or permission of the instructor. Mr. Munzer. M W F 1:10.

§34. The Concept of Beauty.

An analysis of parallels between made and found objects; portraits and portrait-subjects; music and sound-effects; film and documentary; poetry and speech. Selected readings from contemporary sources. Prerequisite: Course 1 or permission of the instructor. Professor Mothersill. Tu Th 10:35-11:50.

§35, 36. History of Modern Philosophy.

Autumn Term: Conceptions of scientific method; the continental rationalists. Readings include selections from Descartes, Hobbes, Spinoza and Leibniz. Spring Term: Moral and

political philosophy; theory of knowledge. Readings include selections from Locke, Berkeley, Hume and Kant. Either term may be taken separately. Prerequisite: Course 1 or permission of the instructor. Autumn Term: Professor Nell. Spring Term: Professor Blustein. M W F 10.

§37. Twentieth Century Philosophy.

An examination of some of the major movements in English and American philosophy with a concentration on theories of meaning and human action. Readings from Wittgenstein, Ayer, Ryle, Hare and Hampshire. Prerequisites: Course 1 or 6 or permission of the instructor. Professor Blustein. M W F 12.

§43, 44. Philosophical Implications of the Modern Novel.

Autumn Term: Reading of Schopenhauer's **The World as Will and Idea** and three works of Nietzsche, followed by a study of Thomas Mann's **The Magic Mountain**. Hermann Hesse's novels are discussed with particular attention to **The Glass Bead Game**. Spring Term: The role of ideas in works of imaginative literature. Readings in Joyce, Gide, Bergson, Proust, Sartre, Greene, West, Kawabata and Mishima. Either term may be taken separately. Professor Brennan. M W F 11.

61. Greek Philosophy.

A humanistic introduction to Greek philosophy, with some attention to its relations to modern thought and concerns. Topics and readings include: the beginnings of science and philosophy in pre-Socratic thought; Socrates as teacher and moralist; Plato and the **Dialogues** (especially **Symposium, Meno, Republic, Timaeus**); Aristotle's metaphysics and ethics; Stoic and Epicurean cosmology and moral theory; Plotinus and the origins of Western mysticism. Professor Brennan. M W F 1:10.

§72. Ethics and Medicine.

A philosophical examination of some of the moral issues that have arisen in medical theory and practice. Topics to be discussed include euthanasia, abortion, experimentation on human beings, eugenics, allocation of scarce resources and behavioral control. Prerequisite: Course 1 or 6 or permission of the instructor. Professor Blustein. Tu Th 2:40-3:55.

§76. Social Philosophy. Seminar.

A systematic exposition of the concepts of liberty, equality, and fraternity with particular attention to the question of compatibility of these ideals. Selected readings from Hobbes, Rousseau, Mill, Marx, and contemporary authors. Prerequisite: Course 1 or 6 or 9 or permission of the instructor. Professor Nell. Tu Th 1:10-2:25.

§77. Theory of Knowledge. Seminar.

An analysis of two contrasting traditions with respect to the structure and basis of knowledge and the justification of belief; the implication of each view for value theory. Readings from classical and contemporary sources. Prerequisites: Course 1 or 6 or permission of the instructor. Professor Blustein. Tu Th 2:40-3:55.

§79. Theory of Meaning.

Consideration of the problems of constructing a theory of meaning for a natural language. Readings from Frege, Tarski, Quine, Davidson, Austin and others. Prerequisite: Course 1 or 5 or permission of the instructor. Professor Larson. M W F 2:10.

§82. Metaphysics.

Systematic consideration of problems related to some fundamental metaphysical distinctions, including substance-attribute, particular-universal, mind-body, necessity, contingency and causality. Readings in contemporary and classical philosophy. Prerequisite: Course 1 or the equivalent. Professor Larson. M W F 1:10.

Philosophy

584. Philosophy of Education.

Philosophical presuppositions of intellectual and moral education. Examination of topics such as innate ideas; natural moral characteristics; permissiveness; "free" schooling; "deschooling"; material and moral incentives. Readings will include selections from Plato, Rousseau, Piaget, Dewey, Chomsky, Illyich, Neil, and current periodical literature. Professor Nell. M W F 1:10.

87-88. Senior Seminar.

An intensive study of selected philosophical classics. Discussions, oral reports and term papers. Required of all majors in their senior year. Autumn Term: Professor Nell. Spring Term: Professor Larson. W 4:10-6. Conference hours to be arranged.

99x, 99y. Supplementary Readings in Philosophy.

To be taken only with the consent of the instructor and permission of the department.

Studies in the Humanities 9. The Concept of Death.

An analysis of various paradoxes arising from the thought that death is a fact of life; a contrast between first- and third-personal perspectives on death; arguments for and against suicide. Reading includes selections from Plato, Epicurus, Cicero, Montaigne, Spinoza, Hume, Schopenhauer, Tolstoi, Mann, Alvarez, and Malraux. Professor Mother-sill. W 2:10-4, plus discussion hours.

COLUMBIA COLLEGE AND SCHOOL OF GENERAL STUDIES COURSES

C1101x or y. Methods and Problems of Philosophic Thought.

C1101x. Professor Danto. Tu Th 11-12:15. C1101y. Professor Sidorsky. M W 11-12:15.

W1103x-W1104y. The History of Philosophy.

Professor Walsh. M W 2:40-3:55.

C1201x. Ideology and Society.

Professor Teitelman. Tu Th 4:10-5:25.

W3039x. Existentialism.

Professor Cumming. M W 2:10-3:25.

W3105y. Concept of Literature.

Professor Kuhns. Tu Th 11-12:15.

C3107y. Moral Philosophy.

Mr. Malino. Tu Th 1:10-2:25.

W3111x. Philosophy of Art.

Professor Danto. Tu Th 2:40-3:55.

C3117x or y. Formal Logic.

C3117x. Professor Steiner. M W F 9. C3117y. Professor Levi. Tu Th 11-12:15.

W3120x. Twentieth-century Philosophy.

Professor Sidorsky. Tu Th 1:10-2:25.

W3122x. The Empiricists.

Professor Parsons. M W F 10.

C3123x. Metaphysics.

Mr. Higginbotham. M W 11-12:15.

W3127y. Nineteenth-century Philosophy.

Professor Geuss. M W F 2:10.

W3177x. Philosophy of Language.

Mr. Malino. Tu Th 4:10-5:25.

C3188y. Theory of Knowledge.

Professor Levi. M W 11-12:15.

W3312y. Aristotle.

Mr. Rumsey. M W F 10.

W3354y. Philosophy of Mind.

Professor Berofsky. Tu Th 3:10-4:25.

Consult Columbia College Bulletin for course descriptions.



Physical Education

Associate Professors

Marion R. Philips, Jeanette S. Roosevelt

Assistant Professor

Sandra Genter

Associates

Alice Braunwarth, Barbara Fitts, Lerner,¹ Edith G. Mason (Chairman)

Instructor

Hannah Kahn¹

¹ Absent on leave, 1974-75.

The curriculum is organized and administered by the faculty of the Department of Physical Education in cooperation with the Health Service and the Recreation and Athletic Association. Courses are offered in twenty-five skills in the areas of dance, sports, aquatics, movement, and fitness. Multiple sections are taught in four skill levels – beginning, low intermediate, intermediate, and advanced.

Health Status

The evaluation of the health status of students by the College Physician influences the programs the students elect.

Posture Analysis

Freshman students may elect to have a complete posture analysis with follow-up examinations. A course, Posture Laboratory, P. E. 86, is offered for students who wish to improve body alignment.

Requirement

Completion of two semesters in the Freshman year and two semesters beyond the Freshman year. Transfer students are required to have two semesters' credit beyond the Freshman year. Transfers, who enter as second semester Freshmen, must also complete one course in the Freshman year at Barnard.

Registration

Students are sent preregistration forms each semester in time to have registration confirmed before filing programs with the registrar. Students must include physical education courses by **number**, **title**, **section** and **sequence number** on final programs to be filed with the registrar. Students who do not preregister may register the first two days of the semester in the gymnasium. Columbia University students, other than Barnard undergraduates, must receive **permission of the Physical Education Department** to register.

Courses

The following courses are offered each semester, with the suffix "x" for autumn semester and "y" for spring semester. They are semester courses which have two class sessions per week. The complete schedule of courses is sent to each student and is available in the Physical Education Department, 209 Barnard Hall. Students are advised to register according to their own skill level: Beginner = (A), low intermediate = (B), intermediate = (C), advanced = (D).

AQUATIC COURSES

20x. Senior Life Saving. Miss Braunwarth. M W 4:00-5:30.

21y. Water Safety Instructors Course. Miss Braunwarth. M W 4:00-5:30.

22x or y. Beginning Swimming. (A)

Section I. Miss Braunwarth. M W 12:10. Section II. Miss Fitts. M W 3:10. Section III. Miss Braunwarth. Tu Th 12:10. Section IV. Miss Braunwarth. Tu Th 3:10.

23x or y. Intermediate and Advanced Swimming. (C, D)

Section I. Miss Braunwarth. M W 11. Section II. Miss Braunwarth. Tu Th 11.

25x or y. Advanced Aquatics. (D) Miss Braunwarth. M W 2:10.**26x or y. Speed Swimming. (D)** Tu Th 4:10-5:30.**27x or y. Swim-and-Stay-Fit. (D)**

Miss Braunwarth. Section I. M W 10. Section II. M W 1:10. Section III. Tu Th 10. Section IV. Tu Th 1:10.

DANCE COURSES**30x or y. Beginning Modern Dance. (A)**

Section I. M W 11. Section II. Professor Genter. M W 1:10. Section III. Professor Roosevelt M W 2:10.

31x or y. Low Intermediate Modern Dance. (B)

Section I. Professor Genter. M W 10. Section II. M W 12. Section III. Tu Th 2:40-3:55.

32x or y. Intermediate Modern Dance. (C)

Section I. Tu Th 9-10:25. Section II. Professor Genter. Tu Th 1:10-2:25.

33x or y. Advanced Modern Dance. (D)

Section I. M W 4:10-5:30. Section II. Professor Genter. Tu Th 4:10-5:25.

35x or y. Beginning Ballet. (A)

Section I. Professor Genter. M W 9. Section II. M W 3:10.

36x or y. Intermediate Ballet. (C) Tu Th 10:35-11:50.**38x or y. Jazz Dance. (A, B, C, D)** M W 4:10.**40x or y. Beginning European Folk Dance. (A)**

Section I. M W 12:10. Section II. M W 1:10. Section III. Tu Th 2:10.

41x or y. Low Intermediate European Folk Dance. (B) Tu Th 3:10.**42x or y. Intermediate European Folk Dance. (C)** Tu Th 4:10.**44x or y. Low Intermediate and Intermediate Israeli Dance. (B, C)** M W 2:10.**46x or y. Beginning Tap Dance. (A)** Professor Roosevelt. M W 12:10.**SPORTS COURSES****50x or y. Beginning Archery. (A)** Mrs. Mason. Tu Th 1:10.**51x or y. Intermediate and Advanced Archery. (C, D)** Mrs. Mason. Tu Th 12:10.**53x or y. Badminton. (A, B, C, D)** Professor Philips. M W 1:10.**55x or y. Intermediate and Advanced Basketball. (C, D)** Miss Fitts. M W 4:10.**57x or y. Beginning and Low Intermediate Bowling. (A, B)**

Section I. Miss Fitts. M W 10. Section II. Miss Fitts. M W 11. Section III. Professor Philips. Tu Th 10. Section IV. Professor Philips. Tu Th 11.

58x or y. Open Hour Bowling. (C, D)

Professor Philips. Section I. M W 9. Section II. M W 1:10. Section III. M W 2:10. Section IV. Tu Th 1:10. Section V. Tu Th 2:10.

Physical Education

60x or y. Beginning Fencing. (A) Tu Th 11.

61x or y. Low Intermediate Fencing. (B) Tu Th 12:10.

62x or y. Intermediate and Advanced Fencing. (C, D) Tu Th 1:10.

64x or y. Beginning Tennis. (A)

Section I. Professor Philips. M W 11. Section II. Professor Philips. M W 2. Section III. Miss Fitts. Tu Th 10. Section IV. Tu Th 3:10.

65x or y. Low Intermediate Tennis. (B)

Section I. Professor Philips. M W 10. Section II. Miss Fitts. Tu Th 11. Section III. Tu Th 2:10.

66x or y. Intermediate Tennis. (C)

Section I. M W 9. Section II. Tu Th 9.

67x or y. Advanced Tennis. (D) Professor Philips. M W 3:10.

70x or y. Volleyball. (A, B, C, D) Miss Fitts. M W 12:10.

71x or y. Intermediate and Advanced Volleyball. (C, D)

Mrs. Mason. Tu Th 4:10.

SPECIAL COURSES

80x or y. Beginning Movement Workshop. (A) M W 11.

81x or y. Intermediate Movement Workshop. (C) M W 3:10-4:30.

83x or y. Beginning Body Conditioning. (A)

Section I. M W 9. Section II. M W 10. Section III. M W 2:10. Section IV. Tu Th 10.

84x or y. Intermediate Body Conditioning. (C) Tu Th 9.

86x or y. Posture Laboratory. Professor Roosevelt. M W 1:10.

88x or y. Relaxation. Professor Roosevelt. Tu Th 1:10.

90x or y. Beginning Self Defense. (A) M W 11.

91x or y. Intermediate Self Defense. (C) M W 10.

93x or y. Beginning Yoga. (A) Tu Th 12:10.

94x or y. Intermediate Yoga. (C) Tu Th 10:35-11:50.

COURSES FOR ACADEMIC CREDIT

The following courses are offered for academic credit only. For course descriptions see Dance, pages 66-67.

Dance 61-62. Dance Workshop.

Dance 63. Form in Dance Composition.

Dance 64. Content in Dance Composition.

Dance 65, 66. History of Dance.

[Dance 74. Seminar on Contemporary Dance Forms. Not given in 1974-75.]

Dance 76. Critical Writing on Dance.

Visiting Professor

Samuel Devons (Director of History of Physics Laboratory)

Associate Professor

Richard M. Friedberg (Chairman; 503 Altschul Hall)

Assistant Professor

Sigalia Dostrovsky

Other officers of the University offering courses listed below:

Professors

Charles Baltay, Gerald Feinberg, Henry M. Foley, Paolo Franzini, William Happer, Sven R. Hartmann, Leon M. Lederman, Wonyong Lee, Joaquin Luttinger, Robert Novick, James Rainwater, Malvin Ruderman, Allan M. Sachs, Chien-Shiung Wu.

Associate Professor

Alfred Mueller

Assistant Professors

Jerome Finkelstein, Robert Guernsey, Lawrence Price, Martin Weisskopf, Richard Wolff

Lecturer

Rajendra Gupta

The study of physics ranges from preparation for professional work in physics or for the study of other sciences to a more general familiarity with physics and its historical development as part of contemporary culture. Besides a thorough preprofessional curriculum, the departmental offering includes courses using Barnard's History of Physics Laboratory, oriented particularly to the broader perspective.

The department offers four distinct introductory sequences, only one of which may ordinarily be taken for credit.

1. V1305x, V1306y and C1001-C1002 are designed for liberal arts students who wish to achieve a qualitative understanding of the science. Either C1001-C1002 taken with 1, 2, or V1305x, V1306y satisfies the science requirement of Barnard College.

2. Either V1003, V1004 or V1103, V1104 is satisfactory preparation for medical school. Both cover the same material, but V1103, V1104 is somewhat more intensive and is designed for students majoring in sciences other than physics. Neither course is recommended as a foundation for more advanced work in physics.

3. An entering student with a serious interest in physics should enroll in the autumn term in C1006x, which begins a four-term sequence (C1007y or C1107y, C1011x, C1012y) leading to more advanced courses. (These introductory courses may be taken without laboratory by nonmajors. See the Columbia College catalogue for the appropriate course numbers.)

4. Freshmen with exceptional aptitude for physics and a good mathematical background may be admitted into the two-semester sequence, C1021, C1022, which replaces the first three terms of the sequence starting with C1006. Admission is by special interview with the instructor. A student interested in this course should, if possible, attend the "Physics Placement Meeting" announced in the Columbia College Freshman Week Program.

The major includes C1006, C1107, C1011, C1012 or C1021, C1022, C1012, with lab in either case; W3003, W3007, W3008, G4003, G4015, G4016, and at least one more semester at the G4000 level; W3072, W3083, and six additional hours of intermediate lab (W3081 and 11, 12) of which at least four hours must be in W3081. Four terms of calculus are essential, and some additional work in mathematics is recommended. The program should also include a year of chemistry, although in some instances astronomy

Physics

or biology may be substituted. The major examination consists of the Undergraduate Record Examination in physics and a one-hour oral examination.

V1305x, V1306y. Discovery and Experiment in Physics.

Topics in the history of physics with experimental work in the History of Physics Laboratory. Critical study of primary sources and discussions on historic experiments in physics from the 17th to the 20th century. This course fulfills the Barnard science requirement. It is oriented primarily to non-science students. Enrollment limited to 36 students. Professor Dostrovsky. Lec. Tu Th 1:10-2:25. Lab. (2 hours) Tu 2:35-4:25, W 2:10-4, Th 2:35-4:25.

C1001x, C1002y. Elementary Physics.

An introductory treatment of the major discoveries and theories of physics and their historical development. C1001: classical (17th century) physics. C1002: contemporary (20th century) physics. This course does not fulfill the physics requirement for admission to medical school. It is primarily addressed to non-science students. This course together with Physics 1, 2 fulfills the Barnard science requirement. Professor Lederman. Lec. Th Th 11:12:15. Discussion: 1 hour to be arranged.

1, 2. History of Physics Laboratory. (Elementary.)

A selection of experiments illustrating discoveries, measurements and concepts which have played a major role in the development of physics. These experiments are performed and reviewed with regard to their actual historical context. **No credit.** Professor Dostrovsky. No lecture. Lab. M 2:10-4, in 515 Altschul.

V1003x, V1004y. General Physics.

The study of mechanics and heat, electricity, magnetism, optics, and modern physics. Calculus is not a prerequisite for this course. V1003x. Professor Weisskopf. V1004y. Professor Wolff. Lec. M W 11. Recit. F 11 or 12. Lab. 3 consecutive hours to be chosen from M Tu W Th F 1:10-4 or 4:10-7. Recitation and laboratory sections are arranged after the first class meeting.*

V1103x, V1104y. General Physics.

The same topics as V1003-V1004 discussed at a somewhat higher level, using calculus. Prerequisite: Calculus I and II. Professor Sachs. Lec. M W F 11. Three hours of laboratory and one recitation hour, to be arranged at the first meeting of the class. Laboratory is required of all students wishing to receive credit for this course.*

C1006x. General Physics I. Mechanics.

Fundamental laws of mechanics: kinematics; dynamics; work and energy; rotational dynamics and angular momentum; introduction to special relativity and relativistic kinematics. Parallel: Calculus I or the equivalent. Professor Price and Dr. Gupta. Lec. and Recit. M W F 9. Lab. to be arranged.*

C1007y. General Physics II. Electricity and Magnetism.

Electrostatics; direct currents; electromagnetism; alternating currents; wave motion. Prerequisite: C1006. Parallel: Calculus II or the equivalent. Professor Price. Lec. and Recit. M W F 9. Lab. to be arranged.*

C1107y. General Physics II. Electricity and Magnetism.

The topics of C1007 are considered in greater depth, with less time spent on routine applications and with extended treatment of some of the more advanced topics. Prerequisite: same as for C1007y. Professor Happer. Lec. and Recit. M W F 9. Lab. to be arranged.*

*No changes in laboratory assignments will be possible after the second class meeting.

C1011x. General Physics III. Optics and Thermodynamics.

Acoustical waves; nature of light; polarization; geometrical optics; interference and diffraction of light; heat; states of matter; gas laws; the laws of thermodynamics; kinetic theory of gases. Prerequisite: C1006. Parallel: Calculus III. Professors Hartmann and Wolff. Lec. Tu Th 9. Recit. 1 hour to be arranged after the first meeting. Lab. to be arranged.*

C1012y. General Physics IV: Modern Physics.

Quantum effects; atomic structure and spectra; nuclear structure and reactions; fission and fusion; elementary particles. Prerequisite: C1011x and C1007 or C1107. Professor Foley. Lec. Tu Th 9. Recit. 1 hour to be arranged after the first meeting. Lab. to be arranged.*

C1021x, C1022y. General Physics.

Mechanics, heat, electricity, magnetism, light and modern physics. Prerequisite: advanced placement in mathematics or some knowledge of differential and integral calculus, and permission of the departmental representative. (A special placement meeting is held during Freshman Orientation.) Intended primarily for freshmen with special ability in mathematics and physics. Professor Baltay. Lec. M W 4:10-5:25. Lab. to be arranged.*

V2005y. Contemporary Physics.

A discussion of topics in contemporary physics. Intended for students interested in science, but not specializing in physics. Prerequisite: C1001, C1002, or V1003, V1004, or V1103, V1104 or equivalent. Professor Devons. Lec. M W 4:10-5:25. No laboratory.

11, 12. History of Physics Laboratory.

Individual studies. Experimental investigations which played a major role in the logical and historical development of physics are studied by both laboratory and literary work. Students working individually or in collaboration with another student choose one or two examples (ranging from physics in the 17th to the 20th century) and study these thoroughly, with some guidance. Prerequisite: Good basic knowledge of physics and permission of the instructor; aptitude for laboratory work; individual initiative. Professor Devons. Hours by arrangement.

[32. **The Physics of Musical Sound.** Professor Dostrovsky. Not given in 1974-75.]

W3003x. Mechanics.

Newtonian mechanics; conservative forces and potentials; oscillations; central forces. Prerequisite: general physics and integral calculus. Professor Feinberg. M W F 10.

W3007x, W3008y. Theory of Electricity and Magnetism.

A discussion of electrostatics, current flow, electromagnetism. The treatment is directed toward the formulation of Maxwell's equations and includes some applications associated with lumped-impedance circuits, transmission lines and plane electromagnetic waves. Prerequisite: an introductory course in electricity and magnetism (C1007 or equivalent). Professor Finkelstein. M W 11-12:15.

W3072y. Seminar in Current Research Problems.

A detailed study of a selected field of active research in physics. The motivation, techniques, and results obtained to the present, as well as the difficulties and unsolved problems. Permission of the department representative required. Professor Ruderman. Th 4:10-5:25.

W3081x or y. Intermediate Laboratory Work.

Experiments in physical optics, electronic circuits, atomic physics, and nuclear physics.

*No changes in laboratory assignments will be possible after the second class meeting.

Physics

An individual program of experiments is arranged for each student in accordance with her interests and previous experience. Immediately after registration and not later than the end of the second day after the beginning of classes, registrants should consult the staff member in charge about assignment to a laboratory section and the schedule of experiments to be performed. Prerequisite: Physics W3003 or W3007, or permission of the instructor. Professors Guernsey and Rainwater, and Dr. Gupta. One four-hour period weekly. Hours to be arranged by the instructor.

W3083x or y. Electronics Laboratory.

A sequence of experiments in solid state electronics, with introductory lectures. Permission of the instructor required. Corequisite: W3003 or W3007. Registration is limited to the capacity of the laboratory. Professor Franzini. M W 1-4.

GRADUATE COURSES

The following G4000 courses form an integral part of the undergraduate major program in Physics:

G4001x. Some Topics in the History of Physics: 17th to 20th Centuries.

Prerequisite: C1006 and C1007 and C1011 and C1012, or permission of the instructor. Professor Devons. Hours to be arranged.

G4003y. Lagrangian Mechanics.

Generalized coordinates; Lagrange's and Hamilton's equations with applications including rigid bodies. Normal coordinate treatment of coupled systems. Prerequisites: integral calculus and differential equations and W3003 or equivalent. Professor Mueller. M W F 10. Problem session (optional): hours to be arranged.

G4009x. Light.

Physical and geometrical optics. Prerequisite: general physics and integral calculus. Professor Happer. M W F 10.

G4013x. Thermodynamics.

General principles of thermodynamics; the three fundamental laws; definition of entropy and the thermodynamic potentials; simple application of thermodynamics; microscopic interpretation of thermodynamics. Prerequisite: W3003 and W3007. Parallel: G4015. Professor Foley. Tu Th 2:40-3:55.

G4015x, G4016y. Atomic Physics and Introductory Quantum Mechanics.

The experimental basis of modern atomic physics. The interpretation of atomic structures and radiation phenomena in terms of the quantum theory. Elementary wave mechanics is applied to simple atomic structures and to potential well and barrier problems. Atoms in applied fields and the interactions in many electron atoms are treated by perturbation theory. The theory of spin and angular momentum. Prerequisite: C1006, C1007, C1011, C1012, or their equivalents, and two additional terms of course work in intermediate or advanced physics. Professor Luttinger (Autumn); Professor Novick (Spring). M W F 9. Problem session (optional): hours to be arranged.

G4040y. Nuclear Physics.

Properties of nuclei, the two-body problem at low energies and nuclear forces, alpha radioactivity, beta decay, emission of electromagnetic radiation and selection rules, nuclear shell structure, the passage of nuclear radiations through matter and methods of detection, high-energy accelerators, nuclear fission, properties of mesons. Prerequisite: G4015 or the equivalent. Professor Wu. Tu Th 11-12:15.

G4050y. Elementary Particle Physics.

A basic treatment of elementary particle physics with emphasis on the experimental point of view; classification and properties of the particles; strong interactions of strange and nonstrange particles; weak interaction; symmetry principles. Prerequisite: G4015x. Professor Lee. M W 2:40-3:55.

Professor

Demetrios Caraley (Chairman; 408 Lehman Hall)

Associate Professors

Dennis Dalton, Peter H. Juviler,¹ Inez S. Reid

Assistant Professors

Astrid E. Merget, Richard M. Pious

Lecturer

Annette B. Fox

Associate

Bruce Feld

Instructor

Flora S. Davidson, Hannah J. Zawadzka

Other officers of the University offering courses listed below:

Professors

Zbigniew Brzezinski, Charles V. Hamilton, Roger Hilsman, Warner R. Schilling, Bruce L. R. Smith, Alan F. Westin

Associate Professor

Wilfred Kohl

Assistant Professors

Gerald Finch, Dall W. Forsythe, Wilbur C. Rich, Richard L. Rubin

Instructor

Eileen Sullivan

Lecturers

Seweryn Bialer, Stuart Fagan

¹ Absent on leave, 1974-75.

The purpose of the study of political science is to develop understanding of the basic political institutions and processes in human society. This understanding involves analysis and evaluation of political systems in the context of the challenges they face and the changes they undergo. The major is designed to equip the student to play an effective role as citizen in a democratic political order, to participate more actively in political life as public or party official, civil servant, lawyer, or political commentator, or to undertake graduate training in political science in preparation for a career in college teaching.

A student majoring in political science is required to take a minimum of nine semester courses from the Department's listed offerings, including Courses 1; either 2, 11, 13, or 14; and two colloquia or other courses having a research paper from among those courses designated by an asterisk (*). A student majoring in urban studies with a concentration in political science is required to take a minimum of six semester courses including Courses 1, V3313, and two from among: 26, 27, 28, 29, V3306, V3407. In order to have the opportunity for independent specialized work, and to explore more adequately the techniques of scholarly investigation, both majors and concentrators are required to write a senior essay as part of the work for the required two-semester senior research seminar (either Course 61-62 or V3711x-V3712y).

The department's requirements are flexibly drawn so as to permit a major in consultation with her adviser to plan an overall program that, while providing some background in various areas of government and politics, can place special emphasis on

such particular interests as the American political system (including its urban subsystem), foreign political systems, international relations, or political theory.

Other social sciences: In view of the essential unity of the social sciences, students majoring in political science are urged to take at least three courses from among the following departments as selected in conference with the adviser: anthropology, economics, history, sociology.

GENERAL COURSES

Courses listed under this heading may be taken without previous study of political science.

§1. Dynamics of American Politics.

An introduction to political dynamics through an examination of the American political system at the national level. Particular attention is given to how political officials are chosen and replaced, how governmental decisions are made, and how governmental performance affects demands on and support for the political system. Section I. Professor Pious. M W 11-12:15. Section II. Professor Merget. M W 2:10-3:25. Section III. Professor Davidson. Tu Th 1:10-2:25. Sign-up sheets for sections are posted outside 408 Lehman.

§1y. Dynamics of American Politics.

Professor Pious. M W 11-12:15.

§2. Comparative Politics.

Study of political attitudes, power, and problems of responding to challenge and change in selected political systems in Europe and Africa. Section I. Miss Zawadzka. M W 11-12:15. Section II. Instructor to be announced. Tu Th 1:10-2:25.

§3. Electoral Politics.

Intensive study of electoral politics, with particular emphasis on party and non-party campaign organizations, campaign strategies and tactics, and factors influencing the behavior of voters. Participation in or first-hand observation of an election campaign is a required part of the course. Professor Merget. M W F 10.

§4. Freshman Seminar in Government.

Intensive study of a topic to be selected by the instructor. The aim of the course is to acquaint students with the methods and sources of political science and to provide experience in discussion and writing. Topic for Spring 1975, instructor, and hours to be announced in December.

§7. Modern Political Movements.

An inquiry into the dynamics of political movements in this century, focusing on aspects of ideology and leadership. Case studies of communism, nationalism, anarchism, and fascism are examined in an international context after a theoretical discussion of the nature of movement politics. Professor Dalton. Tu Th 10:35-11:50.

§V3313y. American Urban Politics.

Patterns of government and politics in America's large cities and suburbs. Analysis of the influence of party leaders, local officials, social and economic notables, racial, ethnic and other interest groups, the press, the general public, and the federal and state governments. The impact of urban governments on ghetto and other urban conditions. Professor Caraley (in charge) and Mrs. Davidson. Lec. M W 2:10 and periodic discussion sections to be arranged.

[10. Workshop in Urban Politics. Professor Merget. Not given in 1974-75.]

§11. International Politics.

An exploration of the basic setting and dynamics of global politics, with emphasis on contemporary problems and processes. Open to freshmen with permission of the instructor. Miss Zawadzka. M W 2:10-3:25.

§12. The United Nations in International Politics.

The position and role of the United Nations in the international political system, its fluctuating opportunities and limitations in the process of global conflict-management and conflict-resolution, and the evolving diversity of U.N. functions. Miss Zawadzka. M W 2:10-3:25.

§13, 14. Political Theory.

Analysis of major political writings from Plato to the present. Emphasis is on a comparison of basic ideas and concepts. Course 13 is prerequisite to Course 14. Professor Dalton. Tu Th 1:10-2:25.

SPECIALIZED COURSES

AMERICAN GOVERNMENT AND POLITICS

[15y. **The Making of American Foreign and Military Policy.** Not given in 1974-75.]

***V3306y. Political Economy of Cities.**

The fiscal implications of metropolitanism: Survey of redistribution of people and jobs within the metropolis and its impact on the economic base and governmental performance, attention to inter- and intra-metropolitan differences by region; introduction to simple concepts and techniques for analyzing metropolitan economic and fiscal characteristics and their policy implications for central city and suburban governments. Prerequisite: V3313 or W3315 or equivalent. Professor Merget. Th 2:10-4, and third hour to be arranged.

§V3316x. The American Presidency.

Analysis of the growth of presidential power, the creation and use of the institutionalized presidency, presidential-congressional and presidential-bureaucratic relationships, and the presidency and the national security apparatus. Prerequisite: Course 1 or equivalent. Professor Pious. M W 2:40-3:55.

§*22. The American Congress.

An inquiry into the dynamics, organization, and policy-making processes of the American Congress. Particular emphasis on the relationship of legislators with constituents, lobbyists, bureaucrats, the President, and with one another. Prerequisite: Course 1 or equivalent. Mr. Feld. Tu Th 10:35-11:50.

§25. The Judicial Process.

Introduction to the American judicial system with emphasis on origins and strategies of litigation, factors which influence the hearing of cases by the Supreme Court, the controversies over judicial review and the commerce clause. Prerequisite: Course 1 or a course in American history. Professor Reid. Tu Th 9:10-10:25.

§26. Problems in Civil Rights and Liberties.

Analysis of the political and legal context for current issues in freedom of speech and religion, racial discrimination, the right to privacy, and criminal law enforcement. Prerequisite: Course 1. Professor Reid. Tu Th 9:10-10:25.

§C3399x. The Supreme Court and American Constitutional Law.

The role of constitutional law and the judiciary in the American political system, with emphasis on the United States Supreme Court. Issues of civil liberties, political trials, federalism, and economic regulation are discussed. Students write a case study of a

recent Supreme Court decision. Prerequisite: Course 1 and junior standing. Professor Westin. M W 11-12:15.

§*C3400y. Colloquium on the Law and Politics of Civil Liberties.

After a survey of existing law on civil liberties and rights, issues of democratic theory, the role of groups in bringing test cases, the dynamics of civil liberties litigation will be discussed, using case studies involving political surveillance, racial equality, church-state issues, consumer rights, women's rights, and other issues. Prerequisite: junior standing, at least one course in American government, and permission of the instructor. Professor Westin. W 10-11:50.

§*27. Colloquium on the Content of American Politics.

Readings, discussions, and reports on major cleavages and issues in American national politics. Prerequisite: Course 1 or permission of the instructor. Mrs. Davidson. W 2:10-4.

[§*28. Colloquium on Congressional Politics. Not given in 1974-75.]

§F3311x. The American Party System.

Ways by which interests outside government achieve political influence at the national level; factors which promote stability and legitimacy in an age of rapidly growing demands. Primary emphasis on political parties, with attention to political participation, interest groups, and electoral behavior, and the impact of new radicalism on the American political system. Prerequisite: Course 1 and junior standing. Mr. Finch. M W 4:10-5:25.

[§C3312y. Executive Politics and Decision Making. Not given in 1974-75.]

§W3315x. Urban Political Problems and Policies.

An analysis of urban political problems stressing urban stratification, power relationships, and substantive policy-making. Topics include the politics of health care, education, poverty and welfare, and the establishment of new mechanisms of urban participation. Prerequisite: V3313. Professor Forsythe. M W 11-12:15.

[§*29y. Colloquium on Selected Topics in Urban Politics. Professor Merget. Not given in 1974-75.]

Urban Studies 35. Colloquium-Workshop in Urban Administration and Management.

Readings, discussions, and reports on the processes of administration and management in urban organizations. Particular attention is given to such topics as executive leadership and control, decision-making, organizational theory, budgeting, and planning. Prerequisite: Political Science V3313 or Urban Studies 46 or equivalent. Professor Merget. Th 2:10-4.

§V3407y. Urban Black and Minority Politics.

Comparative analysis of the politicization of urban ethnic groups, with emphasis on the emerging political patterns and problems of black urban communities. Prerequisite: Course 1 or V3313y, and junior standing. Professor Hamilton. Th 10-11:50.

FOREIGN GOVERNMENTS AND POLITICS

***17. Colloquium on Comparative Politics of Western Europe.**

Comparative analysis of the government and politics of selected Western European political systems. Prerequisite: Course 2, and permission of the instructor. Instructor to be announced. Tu 2:10-4.

[19. Soviet Politics. Professor Juviler. Not given in 1974-75.]

§*20. Colloquium on Communism and Revolutionary Change.

Readings, discussions, and oral and written reports on the development of Communist and other revolutionary movements in the twentieth century; consideration of questions

raised by theoretical and reflective works on the causes, nature, and consequences of recent revolutions and counterrevolutions. Prerequisite: Course 2 or 7 or 19 and permission of the instructor. Instructor to be announced. Th 2:10-4.

S*21. Colloquium on the Politics of Social Change in the U.S.S.R.

Discussion, analysis, and comparison of selected case studies of the Soviet regime's responses to issues of social change. Prerequisite: Course 2 or 7 or other formal study of Soviet government and permission of the instructor. Miss Zawadzka. Th 2:10-4.

S23. African Politics.

Comparative analysis of selected African political systems, with emphasis on the problems of development and modernization. Prerequisite: Course 2 or permission of the instructor. Professor Reid. Tu Th 10:35-11:50.

S24. Asian Politics.

Comparative analysis of Asian national experiences and political ideas, with particular attention to China and India. Prerequisite: Course 2 or permission of the instructor. Professor Dalton. Tu Th 10:35-11:50.

SW3512y. Democratic Politics in Western Europe.

A comparative analysis of politics in Great Britain, France, and Germany with emphasis on political culture, governmental institutions, parties, pressure groups, policy-making in modern industrial societies, and political changes. Prerequisite: Course 2. Professor Kohl. M W 2:40-3:55.

W3522y. Communist Political Systems.

Concepts of comparative politics applied to the study of Communist societies (with stress on the USSR and China): theory and practice; political culture; political and economic institutions and modes of behavior; comparative stages of development and socio-political change. Prerequisite: Course 2 and junior standing. Dr. Bialer. Tu 4:10-6.

G4461x. Latin American Political Behavior.

Comparative analysis of major groups and processes in Latin American politics. Prerequisite: Course 2 and junior standing. Mr. Fagan. Tu 2:10-4.

G4487y. The Dynamics of Soviet Politics.

The role of Marxism-Leninism in Soviet politics; the role of the Communist Party in Soviet government and society; problems of industrialization, stages of development and political change; the balance of political forces and pressures in the Soviet state. Prerequisite: Course 2 or 7 and junior standing. Professor Brzezinski. Th 10-11:50.

POLITICAL THEORY

***16. Colloquium on Personality and Politics.**

Readings, discussion, and research on the role of personality in shaping political behavior, with special attention to the impact of personality in political leaders. Prerequisite: Some course in political science and permission of the instructor. Mrs. Davidson. W 3:10-5.

S*31y. Colloquium on American Political Thought.

Readings, discussion, and research on relationships among political attitudes of intellectuals, social scientists, bureaucrats, and politicians, on the role of political leadership in developing various thematic statements for mass perception, and on the role of bureaucratic intellectuals in developing images for elite audiences. Special attention is paid to political thought involving economic regulation and redistribution, civil rights and liberties, and American "destiny." Prerequisite: Course 1 and permission of the instructor. Professor Pious. Tu 2:10-4.

S*33. Colloquium on Concepts of Political Theory.

The classical concerns of political theory, as they are expressed in the most recent writings. Problems analyzed will include: the significance of the concept of human nature for a study of political thought; the bases of right leadership; the nature of power and authority; methods of violent and nonviolent political social change. Permission of the instructor required. Professor Dalton. M 2:10-4.

SW3411x. Foundations of Western Political Thought: from the Greek Polis to the Formation of the Modern State.

Analysis and discussion of leading political theorists in their historical contexts. Among the authors considered are Plato, Aristotle, Polybius, Cicero, St. Augustine, St. Thomas, Machiavelli, Luther, Calvin, the Monarchomachs, and Bodin. Miss Sullivan. M W 11-12:15.

SW3412y. Modern Political Thought: from the Seventeenth Century to the Present.

Analysis and discussion of leading political theorists in their historical contexts. Among the authors to be considered are Harrington, Hobbes, Locke, Hume, Montesquieu, Rousseau, J. S. Mill, Hegel, Marx, and Lenin. Miss Sullivan. M W 11-12:15.

INTERNATIONAL RELATIONS AND FOREIGN POLICY

S*18. Colloquium on Problems in International Politics.

Readings, discussions, and reports on selected problems in international politics. Topic for 1975: The causes of war. Permission of the instructor required. Instructor to be announced. W 2:10-4.

SC3614y. Approaches to World Order.

Philosophical perspectives and the social, economic, and political conditions underlying different approaches to world order, with an accent on issues rather than institutions. Prerequisite: Course 11 or equivalent. Professor Cox. Tu Th 2:40-3:55.

SC3655x. American Policies in World Politics.

An analysis of the major revolutions in American foreign policy; special attention to World Wars I and II, and the response to nuclear weapons. Prerequisite: junior standing. Professor Schilling. Tu Th 11-12:15.

SC3656y. American Foreign Policy: Process and Problems.

The politics of policy-making; case studies on the making of policy and how this process affects the substance of policy; some current and prospective policy problems in Europe and Asia. Prerequisite: junior standing. Professor Hilsman. Lecture: M 4:10-6. Discussion groups: Tu 9-9:50 or 1:10-2.

COURSES FOR MAJORS AND CONCENTRATORS ONLY

Admission to particular sections of the senior seminar is limited. During Spring pre-registration students must obtain departmental approval for the section desired in the senior seminar.

[*45y. Junior Colloquium on Concepts and Methods. Not given in 1974-75.]

G4910x. Quantitative Methods in Political Science.

An introduction to the foundations and applications of statistical analysis. Main topics include: probabilistic explanation, measurement, principles of probability, probability and sampling distributions, estimation and hypothesis testing, chi-square variables, the F ratio, one-way and two-way analysis of variance, and bivariate and multivariate correlation and regression. Course work includes an introduction to and application of computer-assisted data analysis. Professor Finch. F 10-11:50.

V3711x-V3712y. Senior Research Seminar in American Politics.

Discussions, conferences, and the writing of a senior essay on selected topics of American public policy and politics. Section I. Professor Caraley and Mrs. Davidson. Th 4:10-6. Section II. Professor Smith. Th 2:10-4. Section III. Professor Pious. W 4:10-6. Section IV. Professor Rubin. W 2:10-4. Section V. (Spring Term only) Professor Rich. W 4:10-6.

Note: Admission to Sections II, IV, and V also requires permission of the Barnard chairman.

61-62. Senior Research Seminar.

Discussions and conferences on the researching and writing of the senior essay. Section II. Professor Reid. Tu 4:10-6. Section III. Miss Zawadzka. Th 4:10-6. Section IV. Professor Dalton. W 4:10-6. Section V. Instructor to be announced and Dr. Fox. Tu 4:10-6. Section VI. Mr. Feld. Tu 4:10-6.

GRADUATE COURSES

Certain graduate courses given in the University are open to qualified majors with the consent of the department and the major adviser. These courses are described in the Bulletin of the Graduate School of Arts and Sciences.



Psychology

Professor

Lila Ghent Braine (Chairman), Richard P. Youtz

Associate Professor

Barbara S. Schmitter

Assistant Professors

Edward S. Cobb, George W. Kelling, Thomas Biddle Perera, Carol L. Raye, Susan R. Sacks, Frances F. Schachter, Sandra F. Stingle

Adjunct Assistant Professor

Donald E. Hutchings

Lecturer

Barbara R. Stewart

Special facilities of the Department include the Hollingworth Laboratories and the following:

The Barnard Center for Toddler Development, Dr. Frances Schachter, Director, Mrs. Patricia Shimm and Mrs. Anne Quinn, Associate Directors, provides practicum and laboratory experience in conjunction with a number of courses in child development.

A Demonstration Laboratory Course in Learning (Course 5) using the Teaching Apprentice System of Instruction (TASI) is given by Dr. Edward S. Cobb in connection with his Teaching Apprentice Seminar (Course 49).

The Department's Psychophysiology Laboratory is under the direction of Dr. Thomas Perera. Students in related courses conduct research on the electrical activity of the human nervous system as it relates to higher mental processes.

A major in psychology: The student majoring in psychology studies the basic principles, methods, and findings of psychology and is introduced to their most important applications.

The groupings of courses given below are arranged in accordance with varying interests; the student should select one of the plans (a), (b), (c), or (d). In addition to the offerings listed in the announcement, advanced senior students with special interests may take appropriate courses in graduate school.

(a) General major: A student completing this major will have a good general background for activities in psychology or related fields, such as education, business, school psychology, psychometrics, personnel and social work, and similar areas. The major may be completed by fulfilling the following requirements:

Psychology: Courses 1, 5, 8, 9, one, or both, of 57 and 68; one other laboratory course, and other courses selected in consultation with the major adviser to complete the required 8 courses in the department.

Other fields: One course in philosophy, anthropology, or computer science; a one-year laboratory course in biology, physics, or chemistry.

(b) It is suggested that students who plan to obtain post-graduate professional training in clinical psychology, school psychology, vocational or rehabilitation counseling, or educational guidance should, in addition to the courses required for the major, include Courses 12, 27, and two of the following: Courses 21, 25, 38, 44.

(c) Students interested in professional work in business or personnel should add the following to the requirements for the general major: Course 12. Economics 1, 2; 17, 18; and 19 may be substituted for work in other fields.

(d) Students who wish to take postgraduate work in experimental psychology should

add the following to the requirements for the general major: Courses 17 and 52. In other fields work should include: full-year laboratory courses in two of the following: biology, physics, or chemistry; two semesters of calculus.

The major examination: This consists of the Undergraduate Record Examination in psychology. Students fulfilling any one of the four plans will have completed preparation for the major examination.

Laboratory Science Requirement: The college requirement in laboratory science may be satisfied by taking any two of the following courses: 5, 8, 12, 17, 27, 30.

Notice: Because of anticipated additions to the department in both personnel and courses, students are asked to consult a revised announcement before final registration.

1x (or 1y). Introduction to Psychology.

An introduction to the chief facts, principles, and problems of human behavior, through systematic study of a text, lectures, exercises, brief participation in a current investigation, and reading in special fields. Prerequisite for all other courses. Section I. Dr. Stewart. M W F 9. Section II. Professor Raye. M W F 10. Section III. Professor Perera. M W F 11. Professor Hutchings. Tu Th 9:10-10:25.

5. Psychology of Learning.

The basic methods, results, and concepts in the experimental analysis of learning. Laboratory work consists of experiments and demonstrations which mostly employ albino rats as subjects. Preparation of experimental reports is a major part of the course. Assignments deal mostly with experiments on infra-human organisms. Prerequisite: Course 1 or permission of the instructor. Professor Cobb and assistants. Lec. Tu Th 11. Lab. (1 hour lecture, 2 hours projects) Tu or W or Th 1:10-4.

8. Perception.

An introduction to the problems, methods, and results of studies in perceptual behavior. The literature will be surveyed; key experiments will be discussed in detail. Problems of definition and experimental method will be emphasized. In the laboratory students will conduct a series of typical experiments and will prepare systematic reports of their results. Prerequisite: Courses 1 and 5 or permission of the instructor. Not open to freshmen. Professor Perera and assistants. Lec. Tu Th 11. Lab. (1 hour lecture, 2 hours projects) W or Th 1:10-4.

9x (or 9y). Statistics.

An introduction to statistics and its applications to psychological research. Basic theory, conceptual underpinnings, and the most common statistics will be covered. The laboratory will be devoted to discussion of weekly problem assignments. Prerequisite: Course 1 or permission of the instructor. Professor Kelling and assistant. Lec. M W F 11. Lab. Tu or W 1:10-3.

12. Psychological Measurement.

Introduction to test theory, including concepts of item construction, standardization, reliability, validity, and motivation. Emphasis is on design and research related to major categories of current tests. Laboratory projects will be concerned with constructing and evaluating test items under experimental conditions, with assessing various methods of test administration, and with the quantitative procedures necessary for such evaluations and assessments. Prerequisite: Course 1 and one course in statistics or permission of the instructor. Professor Schmitter and assistant. Lec. M W 10. Lab. (1 hour lecture, 2 hours projects) W or Th 1:10-4.

16. Theories of Learning.

A comparative study of the major accounts of the learning process. The course stresses the relation between each theory and the type and quality of research which is said to be

Psychology

generated by it. Seminar course limited to 20 students. Prerequisite: Courses 1 and 5, and at least junior standing. Professor Cobb. Tu Th 9:10-10:25.

17. Physiological Psychology.

An introduction to the study of the relationships between bodily processes and behavior. Emphasis is placed upon the basic anatomy and physiology of sensory and motor functions, motivation, emotion, learning, and behavior disorders. The laboratory consists of individual and group experiments in these areas of study, and exercises on the anatomy of sense organs and the brain. Prerequisite: Course 1 or permission of the instructor. Professor Perera and assistant. Lec. M W 1:10-2. Lab. (1 hour lecture, 2 hours projects) Tu or W 2:10-5.

21. Abnormal Psychology.

The field of psychopathology, history, more common forms of mental inadequacy and disturbance and their psychological interpretation, including principles of mental hygiene and psychotherapy. Each class takes two trips to institutions for demonstrations of psychoses and deficiencies. Open to juniors and seniors who have had Course 1 or permission of the instructor. Professor Youtz. Tu Th 9:10-10:25.

25. Psychology of Personality.

Major theories of personality, implicit personality theory, and current research utilizing personality variables will be covered. Special attention is given to the personality theory of ordinary men. Prerequisite: Course 1 or permission of the instructor. Professor Kelling. Tu Th 9:10-10:25.

27x or 27y. Developmental Psychology.

Child development from conception to adolescence. An overview of cognitive, linguistic, perceptual, motor, social, and personality development during infancy, the preschool years, middle childhood, and adolescence. The laboratory offers an opportunity for direct contact with children; major areas of research at each level of development are covered. Preference to juniors and seniors. Prerequisite: Course 1 or permission of the instructor. Professors Braine (Autumn) and Schachter (Spring). Lec. M W 1:10. Lab. M or Tu or W 2:10-5.

29x or 29y. Developmental Psychology (lectures).

The same as 27y, but without laboratory and with a demonstration meeting. Lec. M W 1:10. Dem. Tu 9:30-10:20.

30. Psychology of Thinking.

Survey of contemporary experimental approaches to the understanding of concept formation and problem-solving behavior, derived from learning theory, psycholinguistics, logic, and information theory. The laboratory will consist of experiments and demonstrations of thinking behavior in animals, children, and adults. Prerequisite: Course 5 or permission of the instructor. Professor Cobb and assistant. Lec. M W 11. Lab. (1 hour lecture, 2 hours projects) Tu or W 1:10-4.

34x. Educational Psychology.

An examination of major theories and issues in the literature on human psychological development and learning fundamental to the educative process; an exploration of their educational implications and applications. Prerequisite: Course 1 or permission of the instructor. Professor Sacks. Tu Th 10:35-11:50.

38. Social Psychology.

An introduction to the study of social behavior. Among the topics considered are social learning, interaction, group behavior, and verbal behavior. Experimental contributions to the understanding of social phenomena are emphasized. Prerequisite: Course 1 or permission of the instructor. Professor Kelling. Tu Th 9:10-10:25, and conference hour in connection with a project or paper.

39x, 39y. Seminars on Special Topics.

39x. Psychological Analysis of Racism. Psychological factors influencing the development and expression of racist attitudes and actions, with special references to black-white relations. Emphasis on psychodynamic studies of hostility, anger, self-concept, mechanisms of defense, and other factors that produce and reduce racism. Each student will write an original research paper. Limited to 20 students. Prerequisite: Courses 1 and, if convenient, 25, or written permission of the instructor. Instructor to be announced. Th 4:10-6.

39y. Cognitive Psychology. Lectures and discussions will focus on selected topics illustrating the methods, findings, and theories of contemporary cognitive psychology. Consideration will also be given to historical antecedents of current questions and research techniques. Areas covered will include memory for both verbal and visual information, selective attention, the organization of semantic memory and comprehension. Prerequisite: Courses 1 and 9. Limited to 20 students. Professor Raye. M W 1:10-2:25.

42. Child-Rearing: A Survey of Alternative Practices.

Past and current theories, methods, and implications of child-rearing practices examined through studies of parent-child relationships, family structures, sex-role differentiation, and school and community influence. Prerequisite: Course 1 or permission of the instructor. Limited to 30 students. Professor Sacks. Tu Th 10:35-11:50.

[44x. Psychoanalysis from Freud to Laing. Professor Schachter. Not given in 1974-75.]

45-46. Projects in Child Development.

The Barnard Center for Toddler Development provides the focus for this practicum and research seminar in developmental psychology. Students assist one morning a week at the Center, carry out individual research projects, and participate in the ongoing research. There is a 2-hour weekly seminar. A few additional students will do only the research projects. Number of students limited. Prerequisite: Course 27 and permission of the instructor. Professor Schachter. Hours to be arranged.

49. Teaching Apprentice Seminar.

An intensive analysis of the principles of conditioning covered in Course 5. In addition to supplementary materials, students read the material assigned to Course 5 students, prepare Reading Evaluation Forms, and demonstrate in the seminar superior comprehension of the subject matter. Individual work with Course 5 students. Prerequisite: Course 5 and permission of the instructor. Professor Cobb. M 2:10-4, Tu 11-11:50.

52x. Human Learning and Memory.

An introduction to the theories, issues, methods, and findings in the area of human learning and memory. Topics to be considered include: the theory of associations, theories of forgetting, transfer of learning, short-term memory, long-term memory, semantic memory. Prerequisites: Course 1 and permission of the instructor. Professor Raye. M W 2:35-3:50.

57y. Systems of Psychology.

An exploration of principal contemporary problems in psychology in terms of their background and present status. Each student prepares a paper reporting on the background and present status of a problem, theory, or important person. Prerequisite: Courses 5 and 8 or the equivalent. Professor Raye. M W 2:35-3:50.

68x or 68y. Case Histories in the Design of Experiments.

Discussion of stages in the experimental development of psychological concepts. Nonstatistical analysis of procedures and justifiable conclusions at stages of: speculation, measurement, observed relation, experiment, and theory construction. Application to articles in current journals, both experimental and clinical. Each student will choose an

Psychology

area of interest and prepare a paper reporting on its origins and present status. Prerequisite: Course 5 or 8 or permission of the instructor, Professor Youtz. Tu Th 1:10-2:25.

99x, 99y. Individual Projects.

Research projects will be planned in consultation with members of the department. Open to majors who have had Courses 5 and 8, on written permission of the member of the department who supervises the project. Members of the Department. Hours to be arranged.

The following Barnard courses may be of interest to majors. Some have prerequisites.

Anthropology V3027y (Culture and the Individual)

Biological Sciences 8 (Ecology)

Linguistics V1101x, V1102y (Introduction to Linguistics)



Professors

Theodor H. Gaster,¹ Morton Klass (Anthropology), Barry Ulanov (English)

Adjunct Professor

Thomas Berry

Associate Professors

Elaine H. Pagels (Chairman; 219 Milbank), David Sperling

Adjunct Assistant Professor

John B. Snook

Instructor

Joel Brereton

Other officers of the University offering courses listed below:

Professors

Joseph L. Blau, Gillian Lindt, J. A. Martin, Jr., David Weiss

Assistant Professors

Carol P. Christ, Carl F. Hester III, Wayne L. Proudfoot, Robert Somerville, Frederic Underwood, Paul Valliere

¹ Emeritus

The purpose of the program is (a) to introduce the field of religion in general; (b) to present the thought, documents, and history of the major religious systems of the East and West; and (c) to give students an insight into the distinctive approach of each towards the analysis of the human condition and the solution of its problems. The courses are designed not only for those who may wish to specialize in religion, but also as a cross-fertilization of general studies in the humanities, e.g. in history, literature and philosophy.

The program of study for a major in religion is to be planned in consultation with members of the department by the end of the sophomore year. Ten semester courses are required, with the exact distribution to be determined by each student in consultation with departmental advisers. Majors will be encouraged to take one or two introductory courses, a variety of courses in Eastern and Western religions and in the theory and function of religion. All will be required to take two seminars and to write a senior essay in conjunction with one or both of these. Majors will also be expected to organize their programs to assure them of some direct experience and understanding of the disciplines involved in the study of religion, such as anthropology, sociology, psychology, literary analysis, philosophy, or history.

Students of religion usually fall into two groups, (1) those who pursue their study as a way of opening to themselves a large part of the liberal arts curriculum; touching many disciplines and methodologies of learning, and (2) those who have found special areas of interest and look forward to doing graduate work in religion. For both groups, a reading knowledge of such languages as Greek, Latin, Hebrew, Arabic, Chinese, or Sanskrit will be useful; for the second group, it is essential.

GENERAL INTRODUCTION AND SURVEY

SV1101x, V1102y. Introduction to the Study of Religion.

Varieties of religious expression and historical forms of religious life. Autumn Term: Myth and ritual; American Indian religion; the religion of Israel (Old Testament), and the early Christian movement (New Testament). Spring Term: religions of the East. Section I. Autumn Term: Professor Pagels. Spring Term: Mr. Brereton. M W F 10. Section II. Autumn Term: Professor Blau. Tu Th 10:35-11:50.

Religion

SV1102x, V1101y. Introduction to the Study of Religion. (For those wishing to begin the course with the study of Eastern religions.)

Section III. Autumn Term: Professor Underwood. Tu Th 6:10-7:25. Spring Term: Professor Valliere. M W 11-12:15. Section IV. Autumn Term: Mr. Brereton. M W F 10. Spring Term: Professor Blau. Tu Th 10:35-11:50.

SV1001x or y. Major Topics in the Study of Religion.

Introduction to the theory and practice of religion, East and West, with special attention to such topics as myth and ritual, reason and revelation, law and community, and mysticism. V1001x. Section I. Professor Gaster. Tu Th 9:10-10:25. Section II. Professor Proudfoot. M W 11-12:15. V1001y. Section I. Professor Christ. M W 6:10-7:25. Section II. Professor Martin. Tu Th 10:35-11:50.

BIBLE

SV3201x. Introduction to the Old Testament.

An introduction to the religious history and literature of ancient Israel against the background of the ancient Near East. Professor Sperling. M W 2:10-3:25.

SV3202y. Introduction to the New Testament.

An introduction, by critical methods, to the religious history of the Christian movement in the New Testament period. Professor Pagels. M W F 10.

[V3212y. **Prophecy in Ancient Israel.** Not given in 1974-75.]

WESTERN RELIGIONS

[§14. **From Paganism to Christianity.** Not given in 1974-75.]

§15. History of Religious Thought in the West. Jesus: Early Controversies, Recent Interpretations.

Selected sources: New Testament, apocryphal, gnostic gospels; early classics of interpretation by Tertullian, Clement, Athanasius, Augustine, Anselm. Investigation of contemporary views: historical, psychological, political, religious. Prerequisite: New Testament introduction or equivalent. Professor Pagels. M W 2:10-3:25.

§16. History of Religious Thought in the West: The Palestinian Jewish Community: Alexander to Bar Kocheba.

The conflict with pagan culture: sectarian division within the community, the wars against Rome. Sources include the books of the Maccabees, Josephus, the Dead Sea Scrolls. Professor Sperling. M W F 11.

V3220x. Studies in Religion and Culture: Sixteenth and Seventeenth Centuries.

The transformation of European religious thought from the Northern Renaissance to the beginnings of Deism in England, with emphasis on changing views of man, God, and the world, and on the works of Erasmus, Luther, Bruno, Galileo, Descartes, Spinoza, Bayle, and Shaftesbury. Professor Hester. Tu Th 2:40-3:55.

V3222y. Studies in Religion and Culture: Eighteenth and Nineteenth Centuries.

The relation between religion and culture, with special attention given to theories of religious development (personal, social, cultural). Readings will include Hume, Edwards, Lessing, Rousseau, Kant, Hegel, Schleiermacher, Coleridge, Bushnell, Emerson, and others. Professor Proudfoot. Tu Th 2:40-3:55.

SV3224y. Contemporary Religious Thinkers.

Analysis of the views of selected contemporary thinkers in Jewish, Catholic, and Protestant traditions on problems of religious belief. Professor Christ. Tu Th 10:35-11:50.

SV3232y. Eastern Christianity.

The development of the religious mind in the Christian East since the time of the Greek Fathers. The Byzantine Church: institutions, theology, monasticism, religious art. The Byzantine spiritual and intellectual legacy in the Balkans and the Middle East. Russian religious thought. Professor Valliere. Tu Th 4:10-5:25.

G6346y. Early Eastern Christianity.

Controversies in early Christian theology, especially between spokesmen for the "orthodox" majority (e.g., Justin, Irenaeus, Origen) and their Gnostic opponents (Marcion, Basilides, Valentinus). Crucial questions include "literal" vs. "symbolic" interpretations of Christ and the emergence of "orthodox" vs. "heretical" Christianity. Apocryphal and patristic sources read in translation or in the original. *Open to undergraduate majors with permission of the instructor.* Professor Pagels. M 4:10-6.

[**SV3235y. Catholic Theology since Vatican II.** Not given in 1974-75.]

[**V3239y. Russian Religion.** Not given in 1974-75.]

[**W4235y. Monasticism.** Not given in 1974-75.]

History-Religion §64. The History of Religion in America.

Religious thought and institutions from Colonial times to the present; their influence on American political and social history through the work of representative individuals. Professor Snook. Tu Th 9:10-10:25.

JUDAISM

SV3211x. Introduction to Early Rabbinic Literature.

Investigation of major rabbinic writings (second to sixth centuries); emphasis on Agadah (non-legal) sources. Professor Sperling. M W 11-12:15.

[**SV3212y. Prophecy in Ancient Israel.** Not given in 1974-75.]

SV3213y. Judaism in the Period of the Mishnah and Talmud.

A critical survey of major themes in Jewish life, including God, Torah, Israel, the Messiah. Investigation of the role and function of magic, sorcery, dreams, and oracles as reflected in the sources. Professor Sperling. Tu Th 9:10-10:25.

[**SV3214y. Introduction to Talmudic and Geonic Literature.** Not given in 1974-75.]

SW4237x-W4238y. History of Judaism.

History of the Jewish religion from its beginnings to contemporary manifestations in Israel and the United States. Autumn Term: Early background and formation of Judaism. Spring Term: From the Rabbinic period to the present. Professor Blau. Tu Th 4:10-5:25.

ISLAM

[**§56. Islam.** Not given in 1974-75.]

ANCIENT NEAR EASTERN RELIGIONS

SG6312y. Ancient Near Eastern Religions.

A comprehensive study of the religious ideas, practices, institutions and writings of the Egyptians, Mesopotamians, Hittites, Canaanites and Israelites. The texts are read in translation. *Open to religion majors.* Professor Gaster. Th 4:10-6.

EASTERN RELIGIONS

§53. History of Hinduism.

Origin and development of central themes of traditional Hinduism. Emphasis on basic religious literature and its relation to Indian culture. Readings include original sources in translation. Mr. Brereton. Tu Th 10:35-11:50.

Religion

V3260y. Classical Texts in Eastern Religion.

Topic for 1974-75: The Upanishads. Examination of the development of thought in the Upanishads: their origins, the concerns they address, their ethics, their role in later Hinduism. Mr. Brereton. Tu Th 1:10-2:25.

W3251x. History of Indian Buddhism.

A chronological and phenomenological survey of the development of Buddhism in India from Gautama and original Buddhism to Hinayana sectarianism, Mahāyāna, and Vajrayana. Institutions, sects, cults, meditation and spirituality, philosophy. Professor Underwood. M W 2:40-3:55.

W3252y. Buddhism of Tibet, China and Japan.

An historical and phenomenological study of Buddhism in the Far East. Confrontation with indigenous traditions and cultural assimilation. Sects and schools. Institutions. Buddhism and the state. Philosophy. New forms of spirituality and redefinition of the 'Holy Man.' Professor Underwood. M W 2:40-3:55.

[§54. Mahāyāna Buddhism. Not given in 1974-75.]

CHINESE RELIGIONS

[§V3253y. Chinese Religious Thought. Not given in 1974-75.]

JAPANESE RELIGIONS

§V3254y. Japanese Religious Thought.

Shinto: myths and cult. Shrine Shinto and popular Shinto. Japanese Buddhism: origins and adaptation, Tendai, Shingon, Jodo pietism and Honen, Nichiren, Zen. Confucianism. Folk religion. Religion and the arts. Encounter with Christianity. Modern movements in Japanese religion. Professor Underwood. M W 11-12:15.

THEORY AND FUNCTIONS OF RELIGION

[§25. Religion in Contemporary Society. Not given in 1974-75.]

§26. Religion in Contemporary Culture.

Psychological and psychoanalytic interpretation of religion. Examination of the modern tendency to understand religion as psychological process, with particular attention to classic works of James, Freud, and Jung. Consideration of contemporary consequences for the understanding of religious experience. Professor Snook. Tu Th 1:10-2:25.

§27. Contemporary Spirituality.

Investigation of the diversity and significance of new forms of religious search: the way of the guru, sorcery, yoga, and Buddhism, examined in relation to tradition and innovation in the West. Professor Berry. Tu 4:10-6.

V3307x. Women and Religion.

Images and roles of women in Jewish and Christian traditions: modern forms of women's spiritual quest. Professor Christ. Tu Th 10:35-11:50.

[V3314x. Religious Ethics. Not given in 1974-75.]

[V3318y. Story and Religious Sensibility. Not given in 1974-75.]

V3403x. Communes Past and Present: the Pursuit of Utopia.

A comparative analysis of selected religious and secular forms of communitarianism in the Western world with particular reference to their experiments in restructuring traditional economic, familial, religious, and political values and relationships. Professor Lindt. Th 2:10-4.

G4400y. Sociology of Religion.

Introduction to the nature and development of the sociology of religion in the nineteenth and twentieth centuries. Examination of strategic developments in theory and methodology as exemplified in selected case studies from the works of Marx, Durkheim, Weber, Malinowski, Troeltsch, Parsons, Berger, Luckmann, Glock, and Bellah. *Open to religion majors.* Professor Lindt. Th 10-11:50.

W4405y. Social Theory and Religion: the Classics.

A critical survey and exposition of major sociological, psychological, and anthropological theories of man, religion, and society with particular reference to the nineteenth and early twentieth centuries. Professor Lindt. W 2:10-4.

ANTHROPOLOGY

SV3042y. Anthropology of Religion.

Ideological systems of simple or preindustrial cultures. Relations between religion and other aspects of culture. Professor Kessler. Tu Th 4:10-5:25.

SEMINARS

Students who are not religion majors must obtain permission of the instructor.

V3501x. Majors' Colloquium.

Critical discussion of works on the theory of religion. Recommended for all majors. Professor Blau. W 4:10-6.

V3503x, V3504y. Seminars in Religious Thought.

V3503x. I. Forms of Religious Expression.

Analysis and discussion of some major theories of religious expression: Cassirer, Tillich, Levi-Strauss, Ricoeur. Professor Hester. M 4:10-6.

II. The Holocaust: Fiction and Theological Reflection.

A consideration of the holocaust in its historical and cultural context with attention to religious and theological questions which it raises for post-holocaust Judaism and Christianity. Professor Christ. W 2:10-4.

V3504y. I. Mysticism.

Selected mystical literature of the East and West, theistic and non-theistic. Professor Ulanov. M 2:10-4.

II. The World of Myth.

The nature of myth, study of representative myths of East and West. The science of mythology. Myth today. Professor Gaster. Th 2:10-4.

III. The Psalms and Wisdom Literature.

Reading in selected poetic and wisdom literature; some reading knowledge of Hebrew required. Professor Sperling. W 4:10-6.

IV. Concepts of the Self.

An examination of theories and models of the self drawn from recent philosophical and religious thought and from the social sciences. Professor Proudfoot. M 2:10-4.

V. Hegel, Feuerbach and Kierkegaard.

A study of Hegel's philosophy of religion, with reference to two major critics. Professor Hester. W 4:10-6.

VI. Religion and the World Community in the Twentieth Century.

Religious studies as a vehicle for analysis and appreciation of international, intercultural, and interreligious relations in twentieth century civilization. Ideas of world community in historic religious traditions and in the work of some major scholars of religion. Religious factors in international affairs. Course materials drawn from both Western and non-Western sources. Professor Valliere. M 4:10-6.

99x, 99y. Guided Reading and Research.

A program of study designed to give outstanding majors an opportunity to pursue independently a subject of their choosing. A written essay is required of students taking this program. Consultation periods to be arranged with adviser. Members of the Department.



Professor

Richard F. Gustafson (Chairman; 226B Milbank Hall)

Associate Professor

Marina Ledkovsky¹

Associates

Anatol K. Saprnow, Zoya Trifunovich

Instructors

Marianna Saprnow

Other officers of the University offering courses listed below:

Professors

Robert L. Belknap, William E. Harkins, Robert A. Maguire

Associate Professor

John Malmstad

Assistant Professor

Lynn Fisher

Associate

Irene Balaksha, Alla Klimov

¹ Absent on leave, 1974-75.

The Russian Department offers courses in the language, literature, and culture of Russia. Besides a full four-year sequence in language work, there are specialized courses in major Russian authors and important periods in Russian literature and philosophy. Students should consult the department chairman in choosing language courses beyond the second year. For those who know no Russian, the department also gives a series of courses in Russian literature and culture taught in English.

The major in Russian at Barnard is a liberal arts program designed to help the student obtain reasonable fluency in the spoken and written language, a reading command of Russian adequate for interpreting texts, and a comprehensive knowledge of Russian literature and culture, especially of the nineteenth and twentieth centuries. Students will be encouraged to take one year of Russian history and to select relevant courses in philosophy, art, music, and other literatures. The requisites to the major, in most cases to be completed before the junior year, are Russian V1202y (or its equivalent) and usually Russian V1225x, V1226y. The minimum for the major is 8 courses. No courses with readings exclusively in English may be included in the minimal major program. Normally majors are required to take Russian V3333x, V3334y and two fourth-year language courses. The senior requirement may be fulfilled by taking one or two semesters of the Senior Seminar or by writing a Senior Essay. For further information, consult the departmental chairman.

Foreign Language Requirement for the Degree: All students must take a placement examination before entrance. This examination tests the student's knowledge of grammar, her comprehension of written and spoken Russian, and her ability in free composition. Students receiving a sufficiently high grade will automatically fulfill the requirement. All others must complete Russian V1202y or any course beyond that level.

LANGUAGE COURSES

V1101x-V1102y. Elementary Course.

Grammar, reading, composition. Oral practice in small groups. Section I. Mrs. Balaksha. M W F 10. Section II. Professor Gustafson. M W F 12. Section III. Mrs. Balaksha. M W F

Russian

1:10. Oral Practice: Mr. and Mrs. Saprnow and staff. Section I. M W F 9. Section II. M W F 11. Section III. M W F 1:10. Section IV. M W F 2:10. Other hours to be arranged.

V1201-V1202y. Intermediate Course.

Reading, composition, grammar review. Oral practice in small groups. Language laboratory work required. Prerequisite: Course V1102y or the equivalent. Section I. Mrs. Trifunovich. M W F 10. Section II. Mrs. Balaksha. M W F 12. Section III. Mrs. Trifunovich. M W F 1:10. Oral Practice: Mr. and Mrs. Saprnow and staff. Section I. M W 10. Section II. M W 11. Section III. Tu Th 9. Section IV. Tu Th 10. Section V. Tu Th 11. Other hours to be arranged.

[V1211x-V1212y. Intermediate Course: Rapid Reading. Not given in 1974-75.]

V3331x, V3332y. Readings in Russian Literature.

Emphasis on conversation and composition. Reading and discussion of selected texts from nineteenth and twentieth-century Russian literature. Lectures, papers, and oral reports. Conducted entirely in Russian. Prerequisite: two years of Russian or permission of the instructor. Professor Fisher. M W F 1:10. Oral practice (optional). Mr. and Mrs. Saprnow. Two hours to be arranged.

[V3335x, V3336y. Advanced Language Course, Third Year. Not given in 1974-75.]

V3441x-V3442y. Oral and Written Russian: Advanced Course.

Selected twentieth-century Russian texts in philosophy, criticism, and literature provide a context for discussion. Lectures and reports on the modern period. Frequent compositions. Conducted entirely in Russian. Recommended for students who wish to improve their active command of Russian. The second term may be taken without the first. Prerequisite: three years of Russian or permission of the instructor. Mr. Saprnow. M W 3:10. Third hour to be arranged.

V3443x, V3444y. Advanced Russian: Syntax and Style.

Autumn Term: Systematic study of problems in Russian syntax; written exercises, translations into Russian, and compositions. Spring Term: Discussion of different styles and levels of language, including word usage and idiomatic expressions; written exercises, analysis of texts, and compositions. Conducted entirely in Russian. The second term may be taken without the first. Prerequisite: three years of Russian or permission of the instructor. Mrs. Trifunovich. M W F 2:10.

LITERATURE COURSES

For nonmajors, courses marked thus **\$** will count toward the general college requirement.

[V1223x. Modern Slavic Drama in Translation. Not given in 1974-75.]

V1224y. Introduction to Russian Culture.

An introduction to the principal currents of Russian thought and artistic expression, with an emphasis on elements that appear to be characteristically Russian. Audio-visual materials will be used. Term paper and final examination required. A knowledge of Russian is not required. Professor Harkins. M W F 2:10.

V1225x, V1226y. Survey of Russian Literature.

Literature from Pushkin through the modern period, with emphasis on the prose masterpieces of the nineteenth century. The second term may be taken without the first. A knowledge of Russian is not required. V1225x: Professor Malmstad. V1226y: Professor Belknap. M W F 11.

[V1227y. The Works of Tolstoy. Professor Gustafson. Not given in 1974-75.]

[V1228y. The Novels of Dostoevsky. Not given in 1974-75.]

[V1229x. **Russian Drama and Theater.** Not given in 1974-75.]

SV3333x, V3334y. Introduction to Russian Literature.

Emphasis on reading and literary analysis. Close study of representative works of Russian literature from Pushkin to the modern period. Conducted mainly in Russian. Examinations in English. Prerequisite: a grade of B- or better in Course V1202y or permission of the instructor. Dr. Klimov. M W F 10. Oral practice (optional). Mr. and Mrs. Saprnow. Two hours to be arranged.

[V3454y. Russian Thought in the Nineteenth and Twentieth Centuries.

Professor Gustafson. Not given in 1974-75.]

[SV3461y. Pushkin.

Professor Ledkovsky. Not given in 1974-75.]

SV3462y. Gogol.

A close study, in the original, of the major works. Prerequisite: three years of Russian or permission of the instructor. Professor Maguire. Tu Th 12.

SV3463x. Tolstoy.

A close study, in the original, of Tolstoy's shorter fiction. Some attention will be paid to the development of his moral and aesthetic ideas. Prerequisite: three years of Russian or permission of the instructor. Professor Gustafson. M W F 1:10.

[SV3464y. Dostoevsky. Professor Ledkovsky. Not given in 1974-75.]

[SV3464x. Russian Poetry in the Nineteenth and Twentieth Centuries. Professor Malmstad. Not given in 1974-75.]

[SV3467x. Twentieth-Century Prose Writers. Professor Maguire. Not given in 1974-75.]

V3595x, V3596y. Seminar.

Supervised individual research, culminating in a critical paper. The second term may be taken without the first. Prerequisite: senior standing and permission of the instructor. Professors Malmstad, Maguire and staff. First meeting (x and y) Th 3:10, both in 226B Milbank.



Sociology

Professors

Bernard Barber (Chairman; 410 E Milbank Hall), Gladys Meyer¹

Associate Professor

Jonathan R. Cole

Assistant Professor

Julia Makarushka

¹Emeritus.

Sociology introduces students to the scientific study of society. The basic problems common to all human societies and the varied institutional solutions to these problems make up one large area of sociological interest; hence the sociological study of the family, social class, economic and political institutions, religion, science, ideology, etc. The study of rural and urban communities, human relations in groups, social structure and personality are other areas of sociological interest. So also is the understanding of social change. Sociology is concerned not only with the normal functioning of social institutions but also with social problems such as racial and minority problems, industrial conflict, crime, and other areas of social disorganization. In studying these subjects, materials about American society are given primary emphasis. However, comparative materials from other societies, preliterate and more highly developed, are extensively used. Finally, sociology seeks to acquaint students with its methods of investigation, from which students can learn important facts about scientific method in general. A student majoring in sociology will be required to take: Course 1, 2 (preferably in the freshman year); V3100 and V1208 (formerly 41 and 43) (both no later than fall of the junior year); 87-88 (in the senior year); and other courses selected in consultation with the major adviser.

There is no major examination. To graduate, a student must complete, to the satisfaction of her instructor in Soc. 87-88 and one other member of the department, a long paper involving some form of sociological research and analysis.

S1, 2. Introduction to Sociology.

An introduction to sociological analysis with comparative materials from contemporary American and other societies. Autumn Term: Alternative models of sociological analysis. Major structures of society: kinship, socialization, stratification, formal and informal organization. Spring Term: Major structures of society continued: polity, economy, religion. Selected problems of social deviance and social control. Race and ethnic relations. Problems of social change. These courses must be taken in sequence, but not necessarily in the same year. Instructor to be announced. Tu Th 11-11:50, and one additional hour F 10 or 11.

S21. Poverty and the State.

Conceptualizations of poverty and their effect on public policy. An analysis of tax-supported welfare and anti-poverty programs. Comparative study of the philosophy, structure, and coverage in the U. S., England, and France. Open to juniors and seniors. Term paper required. Field work available for those taking both 21 and 22. Prerequisite: Course 1, 2. Professor Meyer. M W F 10.

22. Introduction to Social Work.

The growth of the profession. Intellectual influences which have shaped its development. The traditional fields of practice. The structure and function of voluntary agencies. Open to juniors and seniors. Prerequisite: two courses in social science other than history. Term paper required. Field work available for those taking both 21 and 22. Professor Meyer. M W F 10.

S36. Social Deviance.

Various theoretical perspectives on the nature of deviance and social control. The analysis of selected contemporary problems, seen within the context of the wider society. Prerequisite: Course 1, 2 or equivalent. Professor Makarushka. M W F 2:10.

SV1206y. Equality and Inequality in Western Societies.

A systematic theoretical and empirical analysis of problems of inequality, justice, and discrimination in Western societies. The influence of ascribed statuses on the life-chances of individuals; the fairness of social institutions in rewarding talent. Discussion of the relevant historical, sociological, and philosophical literature. Central themes in stratification theory, from nineteenth century biologicistic views through Marxian formulations to contemporary functional analysis, will be treated. Professor Cole. Tu Th 10:35-11:50.

V1208x. The Logic of Social Inquiry.

Theories and their functions in inquiry; sociological concepts, their definition and measurement; criteria for evaluation claims to knowledge of social phenomena. The problem with common sense explanations. Concepts of causality in the social and physical sciences. The nature of evidence and inference. The conduct of inquiry; conceptualization and the formulation of hypotheses; observational procedures and problems of causal inference; analysis of quantitative and qualitative data. Professor Cole. Tu Th 10:35-11:50.

V3100x. Sociological Theory.

Systematic, historical and sociological analysis of sociological theory with reference to the work of such major figures as Comte, Marx, Spencer, Durkheim, Simmel, Weber, Veblen, Cooley, Mead, Park, Pareto, Mannheim and others. Professor Barber. M W 2:10-3, and conferences.

SV3192x. Social Movements.

The origin and development of social movements, their internal processes and influence on society. Special attention to historical and contemporary American social movements. Professor Hammond. M W 2:40-3:55.

SV3209y. Social Class and Social Mobility.

Consideration of the meaning of social class and social mobility in different cultural and institutional contexts. The impact of economic institutions on stratification and mobility. Historical forces which have shaped the present situation in Western Europe, America, and the socialist states. Class structure and mobility in future societies. Professor Van Zeyl. Tu Th 2:40-3:55.

SV3215y. American Society and Politics.

The relationship among American values, social structure, and political activity. Specific problems include poverty, racism, the social and political implications of a mature capitalist economy, the position of women, the absence of socialist beliefs in the working class, and alternative "integrative" and "conflict-oriented" strategies of social change. Professor Fainstein. M W 11-12:15.

SV3217x. Social Control.

An extensive survey of those facets of social organization which constrain human aspirations and behavior. The quality of human freedom. Special emphasis on (a) the changing character of social controls in a society of affluence and (b) the interaction between processes of social control and the expression of deviant behavior in various societies. Professor Van Zeyl. Tu Th 2:40-3:55.

SV3224y. Crime and Punishment.

Critical review of the major perspectives in criminology, with emphasis on the

Sociology

relationship between theory and control structures in contemporary American society, consideration of the causes and definition of crime, the meaning of criminal statistics, the relationship between the police and the community, the operation of the court and prison systems. Professor Makarushka. M W F 11.

SV3225x. Sociology of Education.

The social organization of education in the United States, with emphasis upon primary and secondary schools. Topics include: the school as a complex organization; the classroom as a learning environment; social factors in academic aspirations and achievement; selected innovations in educational practices; and problems in the relations between the school and the community. Instructor to be announced. M W F 1:10.

SV3228y. Sociology of Medicine.

An analysis of illness and its management in contemporary societies. Topics include: social definitions of health and illness, with emphasis on mental illness; the structure of the "sick" role; social factors in the etiology and distribution of illness; the social organization of the medical professions and of the hospital; and problems and prospects of health delivery systems. Instructor to be announced. M W F 1:10.

SV3265x. Minorities in American Life.

The roles and positions of ethnic minorities in American society. Relations between minority and majority groups explored in terms of attitudinal, economic, cultural, and political dimensions as they exist, have existed, and are changing. Professor Stone. Tu Th 1:10-2:25.

SV3324x. Urban Sociology.

The contemporary American city as the locus of sociopolitical problems and conflicts. Historical forces contributing to current conditions, especially immigration, machines, progressive reform, urbanization of blacks. Poverty, ethnicity, and race. Social welfare institutions and their clients, with emphasis on schools. Alternative strategies of grassroots political mobilization and elite reform. Professor Fainstein. M W 11-12:15.

SV3326y. Personality and Social Structure.

Recent developments in theory and method. Social uses of concepts of motivation and personality and their consequences for social order, interaction, and institutions. Cross-cultural and historical studies, with emphasis on America. Professor Zablocki. Tu Th 2:40-3:55.

SV3443y. The Social Side of Economic Life.

Advanced technology and modern industrial organization, as it affects social structure and quality of life on both wealthier and third world societies. Impact on other social features of business and trade; private ownership and public control; patterns of consumption and income; and the concentration and transmission of wealth. Materials drawn from sociological, economic, anthropological and historical sources. Some acquaintance with a social science is useful. Professor Beveridge. Tu Th 4:10-5:25.

SV3555x. Sociology of Family Institutions.

Cross-national and historical perspectives on the nature of family systems. Family in relation to other institutions, in particular economic, political and class systems. The family and social change. Mr. Fisher. M W 4:10-5:25.

SV3669y. American Political Behavior: Historical Focus.

The development of American political institutions and behavior in the nineteenth and twentieth centuries. Political cleavages: class, culture, and the liberal tradition. The party system and electoral realignments. Professor Hammond. Tu Th 4:10-5:25.

SV3881x. Comparative Sociology.

Comparative analysis in evolution of sociological theory. Cross-national comparisons, with emphasis on social stratification and systems. Professor Van Zeyl. Tu Th 4:10-5:25.

W4008x. Revolution and Development in China.

Summary of sociological issues and overview of the evolution of Chinese society; recent Chinese political, economic, social and cultural development. Implications of the Chinese experience for theories of societal guidance, organizational learning and individual participation in the development process. Audiovisual materials, biography and fiction employed when possible. Professor Winckler. M W 2:40-3:55.

W4010x. The Structure of Soviet Society.

Marxist and non-Marxist theories of Soviet society. Class structure and stratification, the position of nationalities and religious groups, work and leisure, family systems, social controls and the propagation of social values, alienation and authenticity. The social psychology of the individual citizen. Mr. Fisher. Tu Th 11-12:15.

W4082x. Demography of American Society.

Demography as an area within theoretical sociology which also has links to economics and ecology. Demographic methods; the relationship among demographic variables; and discussion of the complex causal connections between various demographic variables and other aspects of social systems. Professor Beaver. Tu Th 1:10-2:25.

87-88. Individual Projects for Seniors.

Groups of 5-10 seniors will be assigned to instructors who will supervise the writing of long papers involving some form of sociological research and analysis. Professors Meyer, Cole, and Makarushka. Apply to Professor Cole for assignment and further instructions.



Spanish

Professor

Margarita Ucelay (Chairman; 213 Milbank Hall)

Associate Professor

Mirella de Servodidio

Assistant Professors

Maria de Orti, Marcia Welles

Associate

Luz Castaños

Instructors

Helene Farber de Aguilar, Vilma Bornemann, Enrique Giordano

Other officers of the University offering courses listed below:

Professor

Karl-Ludwig Selig, Philip Silver

Assistant Professor

B. Russell Thompson

A major in Spanish is designed to enable the student to acquire ease and fluency in the written and spoken language and to develop an understanding of the cultural and literary traditions of Spain and the Hispanic Republics.

A student majoring in Spanish will be required to take Courses 13, 14; 17, 18; 20; 23; 25, 26; 31, 32.

Other fields: The following courses are recommended:

Anthropology V3029; Classical Literature 32, V3123; Art History 75, 76, 79; French 21-22; German 55, 56; History W4779x-W4780y. Philosophy 1; Religion V1101x. A major in Spanish must broaden her study of Spanish culture by relating it to other cultures which have influenced it or been influenced by it.

The major examination consists of a three-hour written examination on Spanish literature; a three-hour written examination on Hispanic civilization and Spanish-American literature; and a half-hour oral examination on literature and culture. All examinations are conducted in Spanish.

Foreign Language Requirement for the Degree: Freshmen who have had prior training in Spanish and who wish to satisfy the foreign language requirement in Spanish will be placed in the appropriate language courses on the basis of their CEEB scores, or, if such are not available, on the basis of proficiency tests taken before registration. Students having a sufficiently high score will automatically fulfill the requirement. All others may do so by completing course 4 with the exception of students of Spanish American background who must fulfill the requirement with Spanish 6x instead of Spanish 4. Transfer students should consult the department.

LANGUAGE COURSES

V1101x-V1102y. Elementary Full-Year Course.

Grammar, reading, conversation. May not be taken parallel to elementary Italian. Laboratory work. Members of the Department. Section Ia. M Tu W Th F 9. Section Ib. M Tu W Th F 9. Section IIa. M Tu W Th F 10. Section IIb. M Tu W Th F 10. Section IIc. M Tu W Th F 10. Section III. M Tu W Th F 11. Section IVa. M Tu W Th F 12.

2x. Intensive Review of Elementary Spanish.

A course for incoming students whose score on the placement test puts them between

the beginning and intermediate level. Also intended for students of Spanish-American background who have some speaking knowledge of Spanish but insufficient formal training or grammatical foundation. Laboratory work. Miss Castaños. M Tu W F 1:10.

3, 4. Intermediate Course.

A rapid review of grammar and syntax; oral practice. Discussion and analysis of important works in Spanish and Spanish-American literatures. Work in the language laboratory. Members of the Department. Section I. M W F 10. Section II. M W F 11. Section III. M W F 2:10.

3y. Intermediate Course, Part I. Equivalent to Course 3, but given in the Spring Term. Mrs. Bornemann. M W F 11.

4x. Intermediate Course, Part II.

Equivalent to Course 4, but given in the Autumn Term. Professor Servodidio. M W F 11.

6x. Problems of Spanish Grammar.

A study of morphology, structure, and syntax as a point of departure for questions related to New York City Spanish: i.e., why linguistic norms operate, what variants develop, to what extent New York City Spanish is peculiar and why. Recommended to students in Education, Linguistics, Urban Studies. Must be used to fulfill the foreign language requirement by students of Spanish-American background. Mr. Giordano. M W F 1:10.

[7. A Study of Spoken Spanish. Not given in 1974-75.]

9, 10. Advanced Oral Spanish.

A study of spoken Spanish, of differences of pronunciation in Spain and America. Conversation, oral drills, and field work. Not intended for students of Spanish-American background. Permission of the instructor required. Autumn Term: Professor Orti. Spring Term: Miss Castaños. M Tu W Th 1:10.

LITERATURE COURSES

For nonmajors courses marked thus **\$** will count toward the general college requirement. All Barnard courses are conducted entirely in Spanish except Course 12.

\$5. Literary Analysis of Contemporary Authors.

Studies in depth of major 20th century works. Techniques of literary analysis as they apply to different genres. Theories of criticism. Critical evaluation of style, structure, and content. Prerequisite: Course 4 or 4x. Professor Servodidio. M W F 10.

\$11. Significant Themes of Contemporary Latin-American and Spanish Literature.

Analysis and discussion of selected works of contemporary interest. Prerequisite: Satisfaction of the foreign language requirement in Spanish. Spanish 11 may be elected more than once for course credit providing sections vary.

I. Woman: Myth and Reality

The contrast between the concerns expressed by Hispanic women writers such as Emilia Pardo Bazán, Julia de Burgos, Luisa Josefina Hernández, and the stereotyped images presented by contemporary authors such as Unamuno, García Lorca, and others. Professor Welles. M W F 11.

II. Poetry of Social Protest

Themes and stylistic evolution of twentieth-century "committed" poetry: Pablo Neruda, César Vallejo, Nicanor Parra, Ernesto Cardenal, and others. Mrs. Aguilar. M W F 1:10.

\$11y. The equivalent of Spanish 11, but given in the Spring.

Caribbean Literature

The cultural interaction of Iberian, indigenous, African, and North American influences as found in the works of Alejo Carpentier, Miguel Angel Asturias, Guillermo Cabrera Infante, Luis Palés Matos, Nicolas Guillen, René Marqués. Professor Orti. Tu Th 10:35-11:50.

12. Contemporary Latin-American Narrative in Translation.

Reading and discussions of major works by Asturias, Borges, Fuentes, Cortazár, García Márquez, Rulfo, and Vargas Llosa. Special emphasis on the social and structural problems involved. No knowledge of Spanish is required. Admission by written permission of the instructor. Professor Servodidio. M W 11-12:15.

13. The Culture of Spain.

The history and culture of Spain. A study of the origins and evolution of Spanish character, tradition, and thought. The interrelationship of its history and arts and the scope of its contribution to Western culture. Lectures and written reports. The use of audio-visual materials will be stressed. Prerequisite: Course 4 or 5. Professor Ucelay. Tu Th 10:35-11:50.

14. Spanish-American Culture.

The history and culture of Spanish America. A study of the origins and evolution of the Spanish-American character, tradition, and thought. The interrelationship of its history and arts. Lectures and written reports. The use of audio-visual materials will be stressed. Prerequisite: Course 4 or 5. Mrs. Aguilar. M W F 2:10.

SC3333x-C3334y. Masterpieces of Spanish Literature (in Spanish).

A systematic survey of the major works of the great writers of Spain and Spanish America. Readings, discussions, and brief reports. Professor Thompson. M W F 9.

S17. Spanish Literature in the Middle Ages and the Early Renaissance.

Lectures and discussions in Spanish on Spanish Literature from its origins to the beginning of the sixteenth century. Prerequisite: satisfaction of the foreign language requirement in Spanish. Professor Servodidio. M W F 2:10.

S18. Literature of the Golden Age.

A study of the poetry, theater, and narrative of the Golden Age. Lectures and discussion of principal authors including Garcilaso, the mystic poets, Cervantes, Lope de Vega, and Calderón. Prerequisite: satisfaction of the foreign language requirement in Spanish. Professor Welles. M W F 1:10.

S20. Don Quijote.

Close analysis and discussion of Cervantes' masterpiece. A study of the principal critical works as outside reading. Prerequisite: Course 17 or 18 or written permission of the instructor. Professor Ucelay. Tu Th 10:35-11:50.

[S22. The Spanish Drama. Professor Ucelay. Not given in 1974-75.]

S23y. Nineteenth Century Literature in Spain.

Romantic drama and poetry; the realistic novel with special emphasis on Galdós. Prerequisite: Course 17 or 18 or written permission of the instructor. Professor Ucelay. Tu Th 1:10-2:25.

S25. Contemporary Spanish Literature, Part I.

Characteristics, technique, and style of the writers of the generation of '98 from Unamuno to Ortega y Gasset. (Baroja, Valle-Inclán, Azorín, Benavente. A. Machado, Juan Ramon Jimenez will be specifically studied.) One term paper. Prerequisite: Course 17 or 18 or written permission of the instructor. Professor Ucelay. Tu Th 1:10-2:25.

S26. Contemporary Spanish Literature, Part II.

The ideas, trends, and new literary concepts from García Lorca and the generation of '27 to the present-day writers. One term paper. Prerequisite: Course 17 or 18 or 25 or written permission of the instructor. Professor Orti. M W F 11.

S31, 32. The Literature of Latin-America.

Autumn Term: An introductory study from its indigenous origins in the Popol-Vuh, through the Colonial period to the twentieth century. Emphasis is placed on the Modernist poets and the literature of the Gaucho and the Indian. Mr. Giordano. M W F 11. Spring Term: Post-Modernist poetry; Jorge Luis Borges; the contemporary Latin-American novel. Professor Servodidio. M W F 10.

33. Senior Seminar.

Intended to supplement or coordinate the work done in other courses and to introduce the student to the methods of scholarly research. Open only to seniors. Professor Ucelay. Hours to be arranged.

Comparative Literature-Spanish C3810x. Don Quixote in Translation.

A critical examination of Don Quixote with particular emphasis on narrative technique and the structure of the novel. There will also be a critical consideration of various kinds of novels (pastoral, sentimental, picaresque, and novels of chivalry) in their relationship to Don Quixote and the history and development of the genre. Professor Selig. Tu Th 11-12:15.

34. Latin-American Seminar.

A seminar which examines the mainsprings of civilization and cultural change in Latin America. Designed for senior majors in Latin-American areas. Mr. Giordano. W 4:10-5:50.

French-Spanish 90. Problems in the Teaching of French and Spanish.

Classroom and laboratory materials available to the teacher of French and Spanish; organization of courses; approaches to conversation, grammar, translation, and literature. Primarily for students in the Education Program; others by written permission of the instructor. Mrs. Daly. Tu 2:10-4.



VII. Urban Studies

This program is supervised by the Committee on Urban Studies:

Professor of Political Science

Demetrios Caraley, Chairman and Director (408 Lehman)

Professor of Education

Patricia A. Graham

Professor of English

Barry Ulanov

Professor of Geography

Leonard Zabler

Professor of Sociology

Bernard Barber

Associate Professor of Anthropology

Paula G. Rubel, Secretary

Associate Professor of Economics

Jean Gooch

Assistant Professor of History

John W. Chambers

Assistant Professor of Urban Studies and Political Science

Astrid E. Merget, Deputy Director (401 Lehman)

The purpose of urban studies is to develop understanding of the basic institutions, problems, and achievements of city life. A major in urban studies can be taken only in conjunction with a concentration in one of the regular departments. Normally the student should choose as major adviser the member of the committee from the department in which she intends to concentrate. Advice and information is also available from Professor Merget, who serves as the Barnard-Columbia College Coordinator for the Urban Studies Program.

The major seeks, first, through departmental and interdepartmental courses, to expose the student to the concepts and findings of a broad variety of disciplines as they bear on urban subject-matter; and second, to encourage the student to acquire the techniques and habits of scholarly investigation through pursuit of more advanced and concentrated work in some particular urban-related discipline including the writing of a senior thesis.

The requirements for a major in Urban Studies are: (a) one course dealing primarily with urban subject-matter in each of three of the following departments from among those courses indicated: anthropology (V3100y, Urban Societies), economics (W3228x, The Urban Economy), history (W4673x or W4674y, American Urban History), political science (V3313y, American Urban Politics), sociology (33, The Community; 34x, American Minorities; or 48, Black Americans in the Twentieth Century; or their equivalents); (b) one course dealing primarily with urban subject-matter from a list approved by the committee in each of two other departments, such as art history, English, geography, psychology, biology, architecture, urban planning; (c) in the junior year Urban Studies 45-46, and in the senior year Urban Studies 64; (d) satisfactory completion of a concentration in one of the participating departments consisting of not fewer than five courses and the writing in that department of a senior thesis on an urban topic to be approved by the committee.

Note: A list of the specific courses that are approved for fulfilling requirement (b) and of the departments that offer concentrations for urban studies majors is issued periodically by the chairman.

45-46. Junior Colloquium in Urban Studies.

Autumn: An examination of urbanization using historical methods, concepts, and materials. Readings and discussions will focus on various types of cities in the past and on the origins of urban problems. Permission of the instructor required. Professor Chambers. W 2:10-4. Spring: An examination of selected problems that currently afflict urban areas with particular attention to housing, education, crime, and poverty. Assessment of attempted solutions including analysis of the theoretical assumption implicit in such remedial efforts. Professors Makarushka and Merget. M 3:10-5.

35. Colloquium-Workshop in Urban Administration and Management.

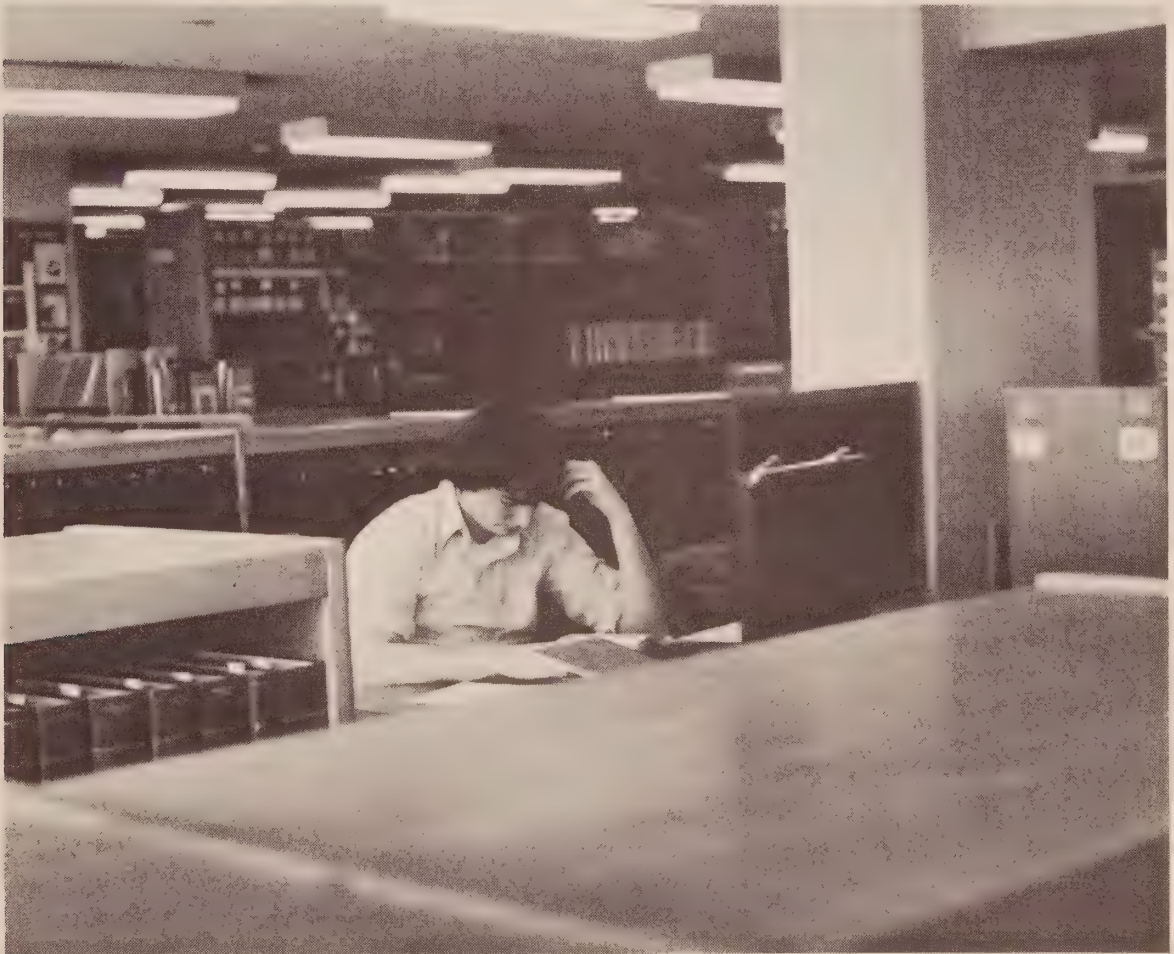
Readings, discussions, and reports on the processes of administration and management in urban organizations. Particular attention is given to such topics as executive leadership and control, decision-making, organizational theory, budgeting, and planning. Prerequisite: Political Science V3313 or Urban Studies 46 or equivalent and permission of the instructor. Professor Merget. Th 2:10-4.

C3880y. Seminar in Urban Studies.

Permission of the instructor required. Mr. Towery. M 7:30-9:20.

64. Senior Colloquium in Urban Studies.

Readings and discussions on the state of the knowledge concerning "urbanism" with particular attention to emerging trends in and prospects of cities. Reports on research being conducted for the senior thesis in the department of concentration. Professor Merget. Th 4:10-6.



VIII. Professional Schools

Professional and graduate training is offered at various schools in Columbia University, and their Bulletins are available in the office of the Secretary of Columbia University. Information and advice concerning advanced work in the University may be obtained from advisers at Barnard.

The requirements for admission vary and must be checked by reference to current regulations and by inquiry to the Office of University Admissions or to the specific school. In some instances a student is eligible after two or three years of college study; in others a Bachelor's degree is essential.

SCHOOLS REQUIRING THE BACHELOR'S DEGREE

ARCHITECTURE

The Graduate School of Architecture and Planning offers courses of study leading to the Degree of Master of Architecture. Under normal conditions, the degree may be obtained in three years.

The requirement for admission to the School is an undergraduate degree in any field or the equivalent. In addition to the degree, three specific courses are required: one semester of physics; one semester of architectural history or art history; and one semester of painting, drawing or sculpture. One semester of calculus is recommended. The courses offered by the School are described in detail in the Bulletin of the School of Architecture. A copy may be obtained from the Office of Architecture Admissions, 400 Avery Hall, 280-3510.

BUSINESS

Programs leading to the MBA degree and the Ph.D. degree in business are available on a full-time, day study basis. In addition to the areas available at the Business School, special concentration areas can be arranged in conjunction with other graduate faculties. Combined degree programs at the master's level are offered with the Schools of Journalism, Law, Architecture, Medicine (Public Health), and International Affairs, and at the doctoral level with Teachers College.

Through the general approach of its core courses and study in one of the fields of business and management, students prepare for diversified managerial positions.

The Columbia Business School operates on a trimester program of instruction. A student may begin studies during the Summer, Autumn, or Spring Term and may complete the degree requirements in four consecutive terms, or may elect not to attend the school for any one four-month term for purposes of employment or vacation, and return to complete the four-term requirements.

Qualified seniors may inquire into cross registration. Business School courses completed in excess of the undergraduate degree requirements may be applied toward MBA credit to a maximum of five courses.

For further information, please write to the Graduate School of Business Admissions Office in Uris Hall.

INTERNATIONAL AFFAIRS AND REGIONAL INSTITUTES

The School of International Affairs awards an M.I.A. degree on the completion of a two-year course. The curriculum is intended to prepare students for careers in a variety of international fields. The program combines emphasis on international politics, international economics, regional specialization, and a functional specialization (such as international business, international law, foreign policy analysis and international communication).

The Regional Institutes give certificates in conjunction with the degree program in the School of International Affairs or the Graduate School of Arts and Sciences. The Regional Institutes at Columbia are as follows: East Asian Institute, Near and Middle East Institute, the Institute on East Central Europe, Russian Institute, Institute on Western Europe, Institute on African Studies, the Institute of Latin American Studies, and the Southern Asia Institute.

Further information may be obtained from the Office of University Admissions, 106 Low Library.

JOURNALISM

The Graduate School of Journalism offers a one-year course leading to the degree of Master of Science. A Bachelor's degree is required for admission to this school. Undergraduate work should include, wherever possible, courses in English, government of the United States, history since 1914, economics, sociology, and psychology. The school requires a strong liberal arts background.

LAW

The School of Law offers a three-year course of study leading to the degree of Doctor of Jurisprudence. There is no required prelaw curriculum.

Admission is on a competitive basis. All applicants are required to take the Law School Admission Test (LSAT) and register with the Law School Data Assembly Service (LSDAS). The test will be given in many locations throughout the United States several times during the academic year. For further information write to the Educational Testing Service, Princeton, New Jersey 08540.

MEDICINE

The College of Physicians and Surgeons offers a four-year course of study leading to the degree of Doctor of Medicine. The preparatory work at Barnard must include the requirements as follows: at least one academic year of English, physics, biological sciences, general chemistry, organic chemistry and a laboratory course in organic chemistry.

Before admission to the medical school, the entire premedical record of each applicant is carefully examined in order that those who are adjudged the most promising candidates for the profession may be selected. While the minimum requirement for admission is three full academic years of college work, the complete college course of four years is considered the most desirable preparation.

PUBLIC HEALTH

The School of Public Health offers graduate programs leading to the Master of Public Health degree and Master of Science degrees in Biostatistics, Epidemiology, and Parasitology. Students in the Master of Public Health program may concentrate in one of the following areas: general public health; biostatistics; environmental management; epidemiology; health administration, including health planning, health facilities, and health program administration; mental health; population and family health; and tropical medicine. The Master of Public Health requires a minimum of three semesters of course work and at least one semester of supervised practical experience. The Master of Science degree may require two academic years of study. A Bachelor's Degree, some evidence of satisfactory preparation in quantitative subject areas, and an acceptable academic average are requirements for admission.

For further information write to the Office of Admissions, School of Public Health, 600 West 168th Street.

Professional Schools

SCHOOL OF THE ARTS

The School of the Arts offers to graduates with a Bachelor's degree from Columbia University, or from another institution of acceptable standing, a two-year course of study leading to the degree of Master of Fine Arts in painting and sculpture, film, and writing, as well as the degree of Doctorate in Musical Arts in musical composition.

A bulletin describing these graduate courses, and also undergraduate courses, is available at the Dean's Office, School of the Arts, 617 Dodge.

SOCIAL WORK

The Columbia University School of Social Work offers a two-year course of study leading to the degree of Master of Science. An advanced curriculum leading to the degree of Doctor of Social Welfare is offered to graduates of schools of social work.

The School is an accredited member of the Council on Social Work Education. The curriculum includes a sequence of background and methods courses, supervised field work in social work agencies, and research to prepare students for professional practice in social work. A Bachelor's degree is required for admission. The undergraduate program of study must include sixty semester hours in liberal arts with a minimum of twenty hours in the biological and social sciences, with emphasis in the direction of the social sciences. A limited number of applicants may be considered for the M.S. program upon completion of three years of full-time undergraduate study. Applications should be filed in January of the junior year.

Admission is on a selective basis. The announcement, giving information about the curriculum and dates for filing applications, may be obtained from the Director of Admissions, 622 West 113th Street, New York, N.Y. 10025.

UNION THEOLOGICAL SEMINARY

Union Theological Seminary offers courses of study leading to the degree of Master of Divinity, Master of Arts in Education and Theological Studies, Master of Arts in Biblical Literature and Comparative Study of Religions. The Seminary also participates in joint programs leading to the degrees of Master of Arts and Doctor of Philosophy in the field of religion at Columbia University.

A Bachelor's degree is required for admission. Those applicants are selected who in the light of expressed purpose, personality, and record of scholarship give especial promise of usefulness in some form of Christian ministry.

Further information may be obtained from the Office of the Registrar, 3401 Broadway, New York, N.Y. 10027.

SCHOOLS NOT REQUIRING THE BACHELOR'S DEGREE

Admission may be gained to the following professional schools without a Bachelor's degree.

DENTAL HYGIENE

The Division of Dental Hygiene, School of Dental and Oral Surgery, offers a junior-senior course of study leading to a Bachelor of Science in Dental Hygiene. Applicants must have completed two years or sixty semester points of work in approved colleges or universities, including six points of English composition, four points of chemistry, four points in biology, three points in psychology, and three points in sociology. Graduates are qualified for licensing examinations in all states.

Further information may be obtained from the Dental Hygiene Admissions Office, Room 7-204, School of Dental and Oral Surgery, 630 West 168th Street.

DENTAL AND ORAL SURGERY

The School of Dental and Oral Surgery offers a four-year course of study leading to the degree of Doctor of Dental Surgery. Required preparation at Barnard College is a minimum of three years including one academic year or its equivalent of the following courses: English composition and literature, inorganic chemistry, organic chemistry, physics and biology.

The Admissions Committee of the School of Dental and Oral Surgery will consider carefully the entire predental record and select the most promising candidates.

ENGINEERING AND APPLIED SCIENCE

The School of Engineering and Applied Science offers undergraduate programs in the professional branches of engineering and in the applied sciences.

The first three years of the five-year program leading to the degrees of Bachelor of Arts and Bachelor of Science are spent under the jurisdiction of Barnard College, and a minimum of courses is taken in the engineering school. After successful completion of the first three years' work, the student applies for admission to the School of Engineering and Applied Science, where the remaining two years of more specialized engineering study are taken.

It is also possible to follow a four-year program which leads only to the Bachelor of Science degree. Two years of pre-engineering subjects are taken in Barnard College and the remaining two years of engineering study are completed in the School of Engineering and Applied Science.

Students interested in engineering or applied science should offer at entrance to Barnard mathematics through trigonometry, physics, and, if possible, chemistry, in addition to the general admission requirements. For details the Office of Admissions of the School of Engineering and Applied Science should be consulted.

Further information about the engineering program and the advanced degrees may be obtained from the Bulletin of the School.

NURSING

In September 1973, the School of Nursing admitted the first freshman class. Liberal arts courses are offered by Barnard College and the School of General Studies. Students begin their nursing major in their first year. Clinical facilities are provided by St. Luke's Hospital Center and Roosevelt Hospital together with Presbyterian Hospital on the Health Sciences Campus. Junior transfer students and college graduates seeking the degree of Bachelor of Science will continue to be admitted.

Further information may be obtained by writing to the Office of Admissions, School of Nursing, Columbia University, 179 Fort Washington Avenue.

OCCUPATIONAL THERAPY

The School of Occupational Therapy offers courses of study leading to the degree of Bachelor of Science after the completion of a two-year program in the liberal arts.

The faculty of Medicine offers a graduate program leading to a Master of Science degree in occupational therapy which requires for admission an acceptable baccalaureate degree

Professional Schools

including stated prerequisites in English, biology, psychology, and sociology. The program of study includes sixty semester credits and eight months of clinical experience.

For additional information write to the Director, Programs in Occupational Therapy, College of Physicians and Surgeons, 630 West 168th Street.

PHARMACY

The College of Pharmaceutical Sciences is a three-year professional school. It grants the Bachelor of Science degree in the pharmaceutical sciences. Students may enter after completing two years of college with courses including basic sciences.

The graduate program includes Masters and Ph.D. degrees in research areas, as well as the Doctor of Pharmacy degree.

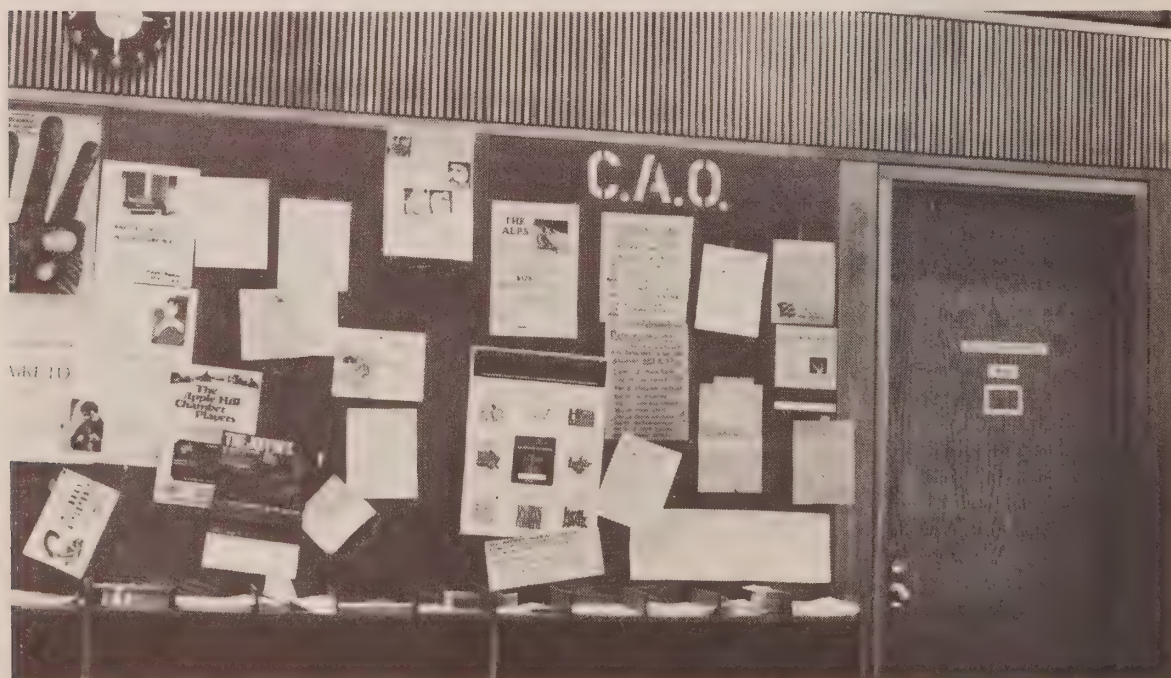
Further information may be obtained from the Office of the Dean, College of Pharmaceutical Sciences, 115 West 68th Street.

PHYSICAL THERAPY

The Faculty of Medicine offers a program of professional study in physical therapy which leads to the Bachelor of Science degree. The candidate for admission must present two years of acceptable college work, including courses in biological sciences, physics, English, and psychology. Requirements for admission to the licensure examination for physical therapists in the State of New York include two courses each in biology, chemistry, and physics. Students who plan to practice in New York State should accordingly fulfill the remainder of these requirements.

The course of professional study covers 21 calendar months, including two academic years of didactic instruction and clinical practice, and a six-week clerkship following the junior year of study.

A graduate program of one calendar year is offered for students already possessing a Bachelor of Arts or Bachelor of Science degree, depending on previous preparation in biological science, physics, English, and social science. The Faculty of Medicine awards a certificate upon satisfactory completion of this course.



Barnard does not charge its students the full cost of their instruction, since its Trustees believe that admission to college should be based on intellectual ability and promise rather than financial resources. Student payments meet only two-thirds of the total educational expense; the balance must be obtained each year from investment income and from gifts of the Associate Alumnae and other friends of the College. By continuous efforts to increase annual gifts and endowment, and by economy of operation, the College keeps charges as low as possible without sacrificing the quality of its instruction.

SCHEDULE OF FEES AND CHARGES

The following fees are required from all students for each Autumn or Spring Term:

Tuition

Full program (3 to 5 courses)	\$1,555.00
Partial program (less than 3 courses). Charges will be assessed on a course or prorata basis regardless of degree credit received. Per course	390.00
Excess program (more than 5 courses). Charges will be assessed on a course or prorata basis regardless of degree credit received. Per course	355.00

Registration	10.00
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Health Service	45.00
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Insurance (see page 198)	48.00
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Undergraduate Association (Will be paid to Undergraduate Association on behalf of each student)	15.00
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The following fees are required from all students occupying College housing facilities for each autumn or spring term:

Reid, Brooks and Hewitt Halls

Room — Single	387.50
Double	362.50
Board	290.00

600, 616 and 620 West 116th Street

Room — Single	420.00
Double	395.00

Plimpton Hall

Room — Single	420.00
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The following fees will be charged where applicable:

Application for admission	15.00
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Registration in absentia	15.00
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Physical education — part-time students	5.00
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Orientation fee (All students entering Barnard College for the first time)

Autumn Term	28.00
Spring Term	7.00

Senior fee (All graduating seniors)	25.00
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Deferred and special examinations (one taken at any other than at the conclusion of a course), payable when application is filed. For each such examination	10.00
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Fees

Late Registration fee — \$5.00 for filing on the day after the deadline and \$2.00 additional for each additional school day that filing is delayed.

Late Program Filing fee — \$5.00 for filing on the day after the deadline and \$2.00 additional for each additional school day that filing is delayed.

Late filing of:	
Application for deferred or special examination	5.00
Application for language placement test	5.00
Tentative program	10.00

Under certain circumstances, course or departmental charges may be made. Please see announcements of departmental offerings and special requirements for courses in the University.

DEPOSITS

All students: In order to obtain a place on the college roll for the ensuing academic year, students who are currently enrolled must pay a deposit of \$100 toward tuition and fee charges on or before **May 1**. Applicants for admission will be billed for the deposit at the time they signify their acceptance of admission to the College. One-half of this deposit (\$50) will be applied to the charges of the Autumn Term and the remainder to the charges of the Spring Term. The deposit toward the term's charges is forfeited unless the Bursar is notified of a change in plans no later than **July 1** for the Autumn Term or **November 1** for the Spring Term.

Resident students and nonresidents who pay housing fees through the College: a room deposit of \$100 is payable by **May 1** to secure the assignment of a room for the following academic year. Three-quarters of this deposit (\$75) will be applied to the charges of the Autumn Term and the remainder to the charges of the Spring Term. The deposit toward the term's charges is forfeited unless the Bursar is notified of a change in plans no later than **July 1** for the Autumn Term or **November 1** for the Spring Term.

PAYMENT OF CHARGES AND FEES

All charges and fees are payable semiannually, in advance. No reduction is made for late registration. Registration is not complete until all charges and fees are paid. Failure to complete registration (including the payment of all charges and fees) on time imposes the late registration fee. See above.

Payment of charges and fees (accompanied by copy of the bill) must be made by **August 9** for the Autumn Term and by **December 16** for the Spring Term. If payments are mailed, envelopes must be postmarked not later than **August 9** or **December 16** respectively. Students admitted for the Autumn Term after **August 1** must pay their bills before the first day of registration. A late payment fee of \$15 will be charged on all payments made or postmarked after midnight on the above dates.

Rooms will not be held for students whose total bills are not paid by **August 9**.

All charges and fees are subject to change at any time at the discretion of the Trustees.

The privileges of the College, including examinations, are not available to any student who is delinquent in the payment of charges or fees. When bills are not paid by their due date or satisfactory arrangements for their payment are not made with the Bursar, the student will be required to withdraw from the College. Financial obligations include not only tuition, fees, and residence charges (if any), but fines due the libraries and other charges which may be incurred.

Checks or money orders in payment of all charges and fees must be in U. S. funds (at a

U. S. bank) payable to Barnard College. Checks or money orders should be made out for the exact amount of the payment due.

(The application fee of \$15, payable when application for admission is filed, is not credited on the bill and is never refunded.)

NOTE: Holders of a New York State Regents Scholarship and/or Scholar Incentive Award may deduct the amount received in 1973-74 or the amount estimated by the Financial Aid Office provided they submit a copy of the certified or registered mail receipt indicating they have filed an application for 1974-75.

DEFERRED PAYMENT

Many parents prefer to meet academic expenses out of monthly income, rather than in large cash payments. Barnard College has no established plan for installment payments. The cost of operating such a plan and the fact that the College operates with a limited administrative staff preclude the possibility of such an arrangement. The College has arranged to participate in the Insured Tuition Payment Plan of Boston which offers two convenient payment programs for parents who desire to budget the annual cost in monthly installments. Both programs include insurance protection which covers the balance of the cost of the entire educational program in the event of the death or disability of the insured parent. A brochure describing it will be sent to all parents of incoming students in the spring of 1974.

The College will also accept payment made through any bank or trust company or recognized financing agency provided payments are made on or before *August 9* for the Autumn Term or *December 16* for the Spring Term.

ADJUSTMENT OF FEES AND REFUNDS

For changing program of study: If a student changes her program and the tuition called for is lower than the amount she has already paid, she will be refunded the excess only if the alteration in her program was made by *September 19* in the Autumn Term and by *February 1* in the Spring Term. If the new program calls for higher tuition, the student must pay the difference at the time she registers the program change.

For withdrawal: If a student withdraws from College after *July 1* for the Autumn Term and *November 1* for the Spring Term, the following amount of tuition and residence fees paid will not be refunded:

Tuition and fees	\$50.00
Residence fees: Autumn Term	75.00
Spring Term	25.00

Up to and including the first Friday of the term (see the College Calendar), the remaining tuition and fees, \$1,575, which the student has paid will be refunded in full. After the first Friday of the term, twenty percent of the remaining tuition and fees, \$315, will be retained by the College for each additional week, or part of a week, of the semester up to the date on which the student's written notice of withdrawal from the College is received by the Office of the Dean of Studies.

Up to and including the first Friday of the term (see the College Calendar), the remaining residence fees that the student has paid will be refunded in full. After the first Friday of the term, ten percent of the remaining residence fees will be retained by the College for each week, or part of a week, up to the date on which the student's written notice of withdrawal from the College is received by the Office of the Dean of Studies.

Any refund to a resident student who moves from the residence halls while still a student in the College will be determined by the Director of Residence and Housing.

Fees

The refund will be based on the same schedule as refunds to students who withdraw from the College and will not be payable until and unless the room is rented for the remainder of the semester.

If a student has made only partial payment on her tuition or room and board, the amount of unpaid balance for each will be deducted from any withdrawal adjustment that is allowed. If the unpaid balance is larger than the credit allowed, the student must pay the difference.

Refunds: No refunds for board will be made for students who wish to take meals off-campus. Barnard is nondenominational and no provision can be made for special diets.

OTHER EXPENSES

The following information may be helpful in budgeting expenses not payable to the College: a minimum of \$150 per year for textbooks; \$285 to cover weekend meals when the dining hall in Brooks-Hewitt-Reid is closed; for students in "600," "616," "620," and Plimpton approximately \$500 for food; for commuting and nonresident students approximately \$190 for lunches at the College; approximately \$400 for clothing, laundry, recreation and miscellaneous expenses. Individual estimates of expense should also include allowances for transportation for nonresident and commuter students, or two round-trip fares from home to college for resident students.

STUDENT HEALTH SERVICE

Campus medical service is available to all Barnard students and is covered by the Health Service fee included in the comprehensive charge payable each term. This service is not available during college vacations.

Students are entitled to the following services:

- 1) an unlimited number of visits to the staff physicians
- 2) an unlimited number of visits to the gynecologists and dermatologist
- 3) use of the Counseling Service
- 4) all indicated diagnostic laboratory studies

The following services are available at an additional charge:

- 1) hospitalization at St. Luke's when school is in session
- 2) medications
- 3) laboratory tests and x-rays ordered by outside physicians
- 4) referrals for dental care and eye examinations

The following services are not provided:

- 1) home visits
- 2) consultations when the College is not in session
- 3) ambulance transportation
- 4) coverage for chronic medical conditions which predate matriculation

Enrollment in the Barnard insurance program is required unless evidence of coverage under another plan (e.g. Blue Cross-Blue Shield) is provided. For further details consult the Barnard Insurance Brochure.

SAFEKEEPING OF STUDENTS' FUNDS

Barnard College is not prepared to receive funds from students for safekeeping nor to cash personal checks or travelers checks.

To cover their immediate expenses, students should provide themselves with travelers checks, which can be cashed at a local bank, or money orders, which the Columbia University Station of the U. S. Post Office will cash upon presentation of a validated ID card. A validated ID card is issued after a student registers at the beginning of each term.

It is also possible to open a checking, special checking, or savings account at one of the local banks:

Chemical Bank

Broadway and 113th Street, New York, N. Y. 10025

First National City Bank of New York

Broadway and 111th Street, New York, N. Y. 10025

American Savings Bank

Broadway and 111th Street, New York, N. Y. 10025



X. Financial Aid

Insofar as possible, Barnard helps qualified students who have financial need. Financial aid from the College consists primarily of grants and loans, although opportunities for part-time employment are also provided (See Office of Placement and Career Planning, page 39). In addition to providing financial aid from its own funds, i.e. gifts, endowment and general income, Barnard participates in the following Federal programs: the Educational Opportunity Grant program, the National Defense Student Loan program, and the College Work-Study program. Federal funds are administered by the College in accordance with government regulations and the College's general policies relating to financial aid. To supplement the above mentioned financial aid sources students are urged to investigate state loan and scholarship programs and college tuition financing plans offered by local banks and insurance companies.

ANNUAL AWARDS

Loans or combination grant-and-loan awards are made by the Committee on Financial Aid to full-time students who have financial need and have demonstrated academic competence. ***The College shall be the sole judge of the financial aid to be granted, and may at any time withdraw or discontinue such aid.*** The amount of the award depends on the student's financial need and is determined from the following:

1. The amount of the parents' contribution as estimated from information given on the Parents' Confidential Statement of the College Scholarship Service.
2. The amount available from other sources, such as the New York State Regents Scholarships and New York State Scholar Incentive Awards.
3. The student's pre-college savings.
4. The student's summer earnings and/or earnings from part-time work during the academic year.

The basic budget used to compute financial need includes, in addition to the college fees, allowances for other expenses as described on page 198.

Awards are for one year only. Students in good standing are eligible to apply for assistance in subsequent years.

APPLICATION PROCEDURES

Entering Students: A Barnard College application for financial aid may be obtained from the Admissions Office. It should be completed and returned to the Office of Financial Aid on or before January 1.

Each financial aid applicant must also file a Parents' Confidential Statement (PCS) with the College Scholarship Service not later than January 15 of her senior year in high school. The PCS should be obtained from the high school counselor. The College Scholarship Service acts as a central filing and distributing agent. Photostatic copies of the completed statements will be sent to the colleges named by the applicant.

Students applying for admission under the Early Decision Plan who wish to apply for financial aid must complete and file the necessary forms by October 15.

Each applicant must complete and file both forms as instructed above in order to be considered for financial aid. Each bona fide applicant is eligible for consideration for all categories of aid administered by the College. Applicants are notified of awards at the time they receive their notice of admission to the College.

If an entering student applies to more than one college in the Seven College Conference (Barnard, Bryn Mawr, Mount Holyoke, Radcliffe, Smith, Vassar, and Wellesley), her

application is reviewed by the appropriate members of the Conference in order that awards may be made on a noncompetitive basis. Amounts vary only according to the difference in fees and, whenever possible, are equivalent in value.

Students Enrolled at Barnard: Any full-time Barnard student may apply for financial aid for the following academic year. *Students already receiving financial aid from Barnard must apply each year for a renewal award.*

Each applicant must file a Barnard College application for financial aid and a Parents' Confidential Statement. These forms are available in the Office of Financial Aid beginning on December 1. In addition, the College may require that an exact copy of the parents' Federal income tax return be submitted in order to verify information on the Parents' Confidential Statement.

Applications must be filed on or before February 15.

Applicants will be notified of their awards by July 1.

Since financial aid is only available to full-time students, any student considering a reduction of course load should consult the Director of Financial Aid.

NEW YORK STATE SCHOLAR INCENTIVE AWARDS

A student who has been a legal resident of New York State for the preceding year may be entitled to a Scholar Incentive Award (\$50 to \$300) per term while she is registered as a full-time degree candidate. The amount of this award is based upon the net taxable balance of her income and the income of those responsible for her support, as reported on the New York State Income Tax Return for the previous year. Application for awards must be made annually and should be filed before July 1 for each academic year. Further information and application forms may be obtained from the Regents Examination and Scholarship Center, 99 Washington Avenue, Albany, New York 12210.

NEW YORK REGENTS COLLEGE SCHOLARSHIPS

Each year the Regents of the University of the State of New York award scholarships to full-time degree candidates who are legal residents of New York State. These awards are based on the Regents Scholarship Examination and are open to students in any approved college or university in the state. Awards range from \$125 to \$500 a term, depending upon need. High school students can get further information from their counselors. New York Regents Scholarships are not automatically renewed; they must be reapplied for annually.

BASIC EDUCATIONAL OPPORTUNITY GRANTS

This newly-instituted Federal program provides grants to eligible full-time undergraduate students who have not attended a post-secondary institution prior to April 1, 1973. Awards are dependent upon need. In 1973-74 BEOG's ranged from \$59 to \$452. Awards are expected to be higher in 1974-75. Applications are available at high schools, colleges, and post offices.

LOAN FUNDS

There are various loan funds at Barnard available for assignment to students as a part of their financial aid.

Barnard College Loans

The Associate Alumnae of Barnard College maintain a Student Loan Fund from which loans to seniors are made. In 1950, through a gift of \$26,000 from Mr. and Mrs. Gerard Swope and Miss Henrietta Swope, an additional fund known as the Swope Loan Fund

was established. In the spring of 1960, the Barnard College Loan Fund was established by the Board of Trustees to help meet the increased need of students. In 1961, the Pauline Hirschfeld Loan Fund was established with a bequest of \$5,000 from Pauline Steinberg Hirschfeld, '08. In 1966 two new loan funds were established: the Barnard College Club of Cleveland Loan Fund with gifts of \$1,276, to be used with preference for a student from the Northeastern Ohio area; and the Ann Susan Becker Memorial Loan Fund with gifts of \$1,530 from her family. In 1968 the Adelaide Le Clercq Loan Fund was established with a gift of \$3,000 from Adelaide M. Hart, '06, to be used with preference for a student majoring in music or French. In 1971 the Gertrude C. Hitchcock Loan Fund was established with \$100,000 at the bequest of Gertrude C. Hitchcock. In 1972 the Mildred Goetz Loan Fund was established with a \$50,000 bequest of Norman S. Goetz.

These funds are administered by the Committee on Financial Aid. Loans are regularly assigned as part of a student's financial aid award. No interest is charged while the student is in college. Payments on principal may be made at any time before graduation. Principal of indebtedness is repaid in semiannual installments of \$150 each after the student ceases to be in full-time attendance at Barnard College. Interest is charged from the first day of the month after the student ceases to be in full-time attendance at Barnard College at the rate of three per cent per annum on the unpaid balance.

The Morris Morgenstern Student Loan Fund of \$5,000 was established in 1959. Interest-free loans not to exceed \$500 are granted upon application to the Office of Financial Aid to any deserving undergraduates, other than freshmen, who are in need of temporary emergency assistance. Loans are granted for short terms, no longer than a year from the date of issue.

The Tudor Foundation Student Loan Fund of \$10,000 was established in 1967. Interest-free loans not to exceed \$1,000 in any one academic year are granted upon application to the Office of Financial Aid, to mature when the student terminates her connection with the College.

National Direct Student Loan Program

Barnard participates in the National Direct Student Loan Program (Title II of the National Defense Education Act of 1958). A portion of the funds for this Program are granted to the College by the federal government after application by the College; the balance of the funds are contributed by Barnard. These loans are assigned by the College to students as a part of their financial aid.

State Loans

Legal residents of the State of New York who are degree candidates are eligible to apply for loans guaranteed by the New York Higher Education Assistance Corporation. No interest is charged as long as the college certifies that the student demonstrates need for the loan, and that she is registered as at least a half-time student. Interest and repayment of principal begins nine months after a student ceases to be registered at least half-time. Further information and application forms for these loans should be obtained from local banks.

Other states also have loan plans through the Federally Guaranteed Loan Program. Students should inquire at their local banks regarding such loan plans.

BARNARD COLLEGE FUNDS

Financial assistance, in the form of grants, is available through a variety of restricted and unrestricted gifts, endowment funds, and trust funds as listed on the following pages. Such grants are awarded on the basis of financial need to eligible students who have made formal application for financial aid.



Scholarship Funds

UNRESTRICTED¹

Niels J. Allison Fund (1964).

From the estate of Beatrice C. Allison '12. \$55,229.

Alumnae Scholarship Fund (1922).

A tenth reunion gift by the Class of 1912, subsequently supplemented by legacy from the estate of Julia Ludlow Young and by gifts of other alumnae. \$24,242.

Anna E. Barnard Scholarship Fund (1899).

In honor of Mrs. John G. Barnard by Emily H. Bourne. \$3,000.

Frances E. Belcher Scholarship Fund (1963).

By bequest of Miss Frances E. Belcher. \$42,257.

Ruth Marshall Billikopf Scholarship Fund (1950).

In honor of Ruth Marshall Billikopf '19. \$5,000.

Varian White Blumberg Scholarship Fund (1952).

From the estate of Varian White Blumberg '13. \$5,000.

Charles E. Bogert Memorial Scholarship and Anna Shippen Young Bogert Memorial Scholarship Fund (1913).

By bequest of Annie P. Burgess. \$10,000.

Eva-Lena Miller Booth Scholarship Fund (1932).

In memory of Mrs. Eva-Lena Miller Booth, by the New York City Chapter of the Daughters of the American Revolution. \$1,000.

Josephine Brand Scholarship Fund (1970).

By bequest of Josephine Brand, the income therefrom to be expended within twenty-five years for scholarships. \$43,548.

Brearley School Scholarship Fund (1889).

By pupils and former pupils of the Brearley School. \$3,000.

Martha Ornstein Brenner Scholarship Fund (1915).

In memory of Martha Ornstein Brenner '99, by her friends. \$4,000.

Arthur Brooks Fund (1897).

As a memorial to the Reverend Arthur Brooks, D.D., Rector of the Church of the Incarnation and Chairman of the Board of Trustees of Barnard College during the first six years of its existence, by Olivia E. Phelps Stokes. \$5,000.

Elizabeth Hobe Burnell Scholarship Fund (1971).

By bequest of Elizabeth Hobe Burnell '20. \$58,041.

Thomas F. Clark Students' Fund (1928).

By bequest of Mrs. Fanny Foster Clark. \$100,000.

Jennie B. Clarkson Scholarship Fund (1898).

By Mrs. W. R. Clarkson. \$3,000.

Class of 1921 Scholarship Fund (1931).

A tenth reunion gift by the Class of 1921. \$2,500.

Class of 1933 Scholarship Fund (1973).

A fortieth reunion gift by the class of 1933. \$6,504.

Class of 1936 Scholarship Fund (1971).

A thirty-fifth reunion gift by the Class of 1936. \$8,907.

¹Figures indicate principal of funds as of January 1, 1974.

Class of 1953 Scholarship Fund (1973).

A twentieth reunion gift by the class of 1953. \$5,155.

Class of 1954 Scholarship Fund (1955).

Gifts of the Class of 1954 through their fifth reunion in 1959. \$4,584.

Martine Cobanks Scholarship Fund (1973).

From the Estate of Alvena Martine Cobanks '19. \$10,000.

College Bowl Scholarship Fund (1968).

With gifts from the General Electric Company, *Seventeen* Magazine, and Gimbels Department Store, earned by the Barnard College Bowl Team's five successive victories. \$19,500.

Yvonne Moen Cumerford Scholarship Fund (1972).

By bequest of Yvonne Moen Cumerford '23. \$10,000.

Vera B. David Scholarships (1962).

Income from the trust established by bequest of Vera B. David in memory of her late husband, John David.

Ada M. Donelle Scholarship Fund (1948).

By bequest of Mrs. Ada M. Donelle. \$121,751.

L. Adele Dorsett Fund (1971).

By bequest of Herman F. Smaltz in memory of Adele Dorsett Smaltz '06. \$1,000.

Sarah Engel Scholarship Fund (1973).

From the Estate of Sarah Engel '15. \$10,000.

Margaret Jane Fischer Scholarship Fund (1968).

With a gift from Margaret Jane Fischer '35. \$10,014.

Fiske Scholarship Fund (1895).

By Mrs. Martha T. Fiske-Collord. \$5,000.

Doris P. Gallert Scholarship Fund (1970).

By the Trustees out of funds left to the College by a bequest of Doris P. Gallert. \$6,000.

Galway Fund (1912).

By an anonymous donor. \$2,400.

Anita Hyman Glick Scholarship Fund (1968).

In memory of Anita Hyman Glick '62 by her family and friends. \$11,835.

Irma Alexander Goldfrank Fund (1919).

In memory of Irma Alexander Goldfrank '08, by her friends. \$2,106.

Graham School Scholarship Fund (1907).

By the Graham Alumnae Association. \$7,300.

Ethel C. Gray Scholarship Fund (1973).

By the Trustees out of funds left to the College by a bequest of Ethel C. Gray '17. \$5,000.

Louise H. Gregory Scholarship Fund (1955).

With gifts in memory of Louise H. Gregory. \$4,547.

Harkness Scholarship Fund (1939).

With a gift from Edward S. Harkness. \$100,000.

Helen May Smith Helmle Scholarship Fund (1973).

By the Trustees out of funds left to the College by the life income contract of Helen May Smith Helmle '30. \$72,932.

Scholarship Funds

Rita Hilborn Hopf Memorial Scholarship Fund (1966).

By bequest of Rita Hilborn Hopf '14. \$270,403.

Charles Evans Hughes Scholarship Fund (1952).

By bequest of Charles Evans Hughes. \$14,300.

Lily Murray Jones Scholarship Fund (1950).

In memory of Lily Murray Jones '05, Alumnae Trustee from 1939 to 1943, by Murray, Alfred, and Wallace Jones. \$25,146.

Mildred K. Kammerer Scholarship Fund (1973).

By bequest of Mildred K. Kammerer '19. \$5,200.

Marjorie Lawrence Kaufman Scholarship Fund (1965).

By the Trustees out of funds left to the College by the life income contract of Marjorie Lawrence Kaufman '19. \$24,290.

Augusta Larned Scholarship Fund (1924).

By bequest of Augusta Larned. \$10,000.

Marjorie Herrmann Lawrence Scholarship Fund (1967).

In memory of Marjorie Herrmann Lawrence '19. \$16,000.

Harriett Mooney Levy Scholarship Fund (1965).

By bequest of Harriett Mooney Levy. \$69,339.

Joan Sperling Lewinson Scholarship Fund (1955).

With gifts from Joan Sperling Lewinson '13. \$35,100.

Judith Lewittes Scholarship Fund (1957).

In memory of Judith Lewittes '55, by her family and friends. \$5,879.

Anne Elizabeth Lincoln Scholarship Fund (1963).

From the estate of Anne Elizabeth Lincoln '24. \$8,441.

Amy Loveman Scholarship.

See Prizes, page 218.

Louise Grace Luby and James Luby Scholarship Fund (1947).

From the estate of Grace Farrant Luby '93. \$5,000.

Jeanne S. Mattersdorf and Bertha Miller Memorial Scholarship Fund (1970).

With a gift from Stephanie Mattersdorf Miller. \$4,569.

Cecile Lehman Mayer Scholarship Fund (1962).

With a gift from Mr. and Mrs. Paul Mazur. \$25,000.

Adele Duncan McKeown Scholarship Fund (1973).

By the Trustees out of funds left to the College by a bequest of Adele Duncan McKeown '11. \$5,000.

Memorial Scholarship Fund (1954).

To receive contributions in memory of deceased alumnae and friends. \$45,927.

William Moir Scholarship Fund (1912).

In memory of William Moir by his wife. \$10,000.

Gulli Lindh Muller Scholarship Fund (1972).

By the Trustees out of funds left to the College by the life income contract of Dr. Gulli Lindh Muller '17. \$31,901.

Caroline Church Murray Fund (1918).

In memory of his wife, Caroline Church Murray, by George Welwood Murray. \$5,000.

Annette Florance Nathan Scholarship Fund (1947).

From the estate of Frederick Nathan. \$3,000.

Dora R. Nevins Scholarship Fund (1969).

In loving memory of Dora R. Nevins by bequest of Nannie R. Nevins. \$12,500.

Lucretia Perry Osborn Scholarship Fund (1940).

In memory of Lucretia Perry Osborn, a Trustee of Barnard College from 1893 to 1930, by her family and friends. \$5,000.

Elizabeth Palmer Scholarship Fund (1972).

By the Trustees out of funds left to the College by Elizabeth Palmer '15. \$20,000.

Jean T. Palmer Scholarship Fund (1969).

By gifts of alumnae and other friends. \$126,870.

Frances Moore Plunkert Scholarship Fund (1973).

In memory of Frances Moore Plunkert '33, by the Trustees out of funds left to the College by a bequest of William J. Plunkert. \$10,000.

Lucy Powell Scholarship Fund (1971).

By the Trustees out of funds left to the College by the life income contract of Lucy Powell '13. \$5,652.

M. Gladys Quinby Scholarship Fund (1961).

By bequest of M. Gladys Quinby '08 and gifts of friends. \$5,000.

Eva Rich Scholarship Fund (1968).

By bequest of Eva Jacobs Rich '07. \$53,243.

Peter C. Ritchie, Jr. Scholarship Fund (1937).

By bequest of Virginia J. Ritchie. \$4,436.

Edith Lowenstein Rossbach Memorial Scholarship Fund (1959).

In memory of Edith Lowenstein Rossbach '19, by her family, friends, and classmates. \$23,304.

Edna Heller Sachs Scholarship Fund (1955).

With a gift from Edna Heller Sachs '10. \$16,260.

May and Edgar Salinger Scholarship Fund (1971).

In memory of Isaac and Eugenie Herrmann by bequest of May H. Salinger. \$688,798.

Eleanor Butler Sanders Scholarship Fund (1922).

By bequest of Henry M. Sanders. \$10,000.

Anna M. Sandham Scholarship Fund (1922).

By bequest of Anna M. Sandham to Columbia University. \$10,000.

Schmitt-Kanefent Scholarship Fund (1931).

By bequest of Catherine Schmitt. \$7,102.

Scholarship Fund (1901).

By general subscription through the Scholarship Committee of the Board of Trustees. Approximately \$11,980.

Katherine Flint Shadek Scholarship Fund (1961).

By Katherine Flint Shadek '44. \$19,000.

Max Sloman Scholarship Fund (1971).

By the Trustees out of funds left to the College by a bequest of Max Sloman. \$5,700.

Emily James Smith Scholarship Fund (1899).

In honor of Miss Smith, Dean of Barnard College from 1894 to 1900, by Emily H. Bourne. \$3,000.

Scholarship Funds

George W. Smith Scholarship Fund (1906).

In memory of George W. Smith, a Trustee of Barnard College, by Mrs. Martha T. Fiske-Collord. \$5,000.

Edna Phillips Stern Scholarship Fund (1952).

In memory of Edna Phillips Stern '09, by her family and friends. \$21,797.

Isabel Greenbaum Stone Scholarship Fund (1957).

In memory of Isabel Greenbaum Stone '18, by her family. Recipients of these scholarships are urged to repay the amounts they receive as soon as they are in a position to do so. \$20,665.

Fannie Manwaring Sturtevant and Daniel Dwight Sturtevant Scholarship Fund (1969).

With a bequest from Ethel G. Sturtevant, former Assistant Professor of English. \$20,000.

Solon E. Summerfield Foundation Scholarship Fund (1960).

By gifts from the Solon E. Summerfield Foundation. \$16,500.

Thrift Shop Scholarships (1938).

Awarded annually from the proceeds of the Barnard Scholarship Unit of Everybody's Thrift Shop, 330 East 59th Street, New York, N. Y. 10022.

Veltin School Scholarship Fund (1905).

By the alumnae of Mlle. Veltin's School. \$3,000.

Alma F. Wallach Scholarship Fund (1951).

In memory of Alma F. Wallach from the estate of Richard L. Leo. \$1,000.

Ella Weed Scholarship Fund (1895).

In memory of Ella Weed, Chairman of the Academic Committee of the Board of Trustees of Barnard College during the first five years of its existence, by pupils and alumnae of Miss Anne Brown's School. Approximately \$8,602.

Hymen and Helen Werner Scholarship Fund (1964).

In memory of Hymen and Helen Werner. Established by Helen Frankfield Werner '06 in 1953 in memory of her husband. Following her death maintained as the Hymen and Helen Werner Scholarship Fund by her daughters, Therese Werner Kohnstamm '33, Laura Werner Wallerstein '36 and Jean Werner Kane '37. \$10,568.

RESTRICTED¹

Mary Gertrude Edson Aldrich Fund (1916).

By Mrs. James Herman Aldrich. For a student, in her senior year, who has shown in her college life the moral qualities which go to the making of fine womanhood. \$1,000.

Bertha R. Badanes Scholarship Fund (1966).

By Bertha R. Badanes '14. For children of New York City school teachers preferably from Brooklyn. If there is no qualified candidate the award may be used for another needy student, preferably from Brooklyn. \$25,000.

Barnard-in-Brooklyn Club Scholarship (1944).

A tuition scholarship with variable stipend. Preference to be given to a student from Brooklyn.

The Barnard College Club of Detroit Scholarship (1958).

A tuition scholarship with variable stipend. Preference to be given to a new student from Metropolitan Detroit.

Barnard College Club of Houston Scholarship Fund (1969).

For students from the Houston area. \$13,025.

¹Figures indicate principal of funds as of January 1, 1974.

Barnard College Club of New York Scholarship Fund (1952).

For a Barnard student whose home is outside the area of the City of New York. \$47,489.

Barnard-in-Westchester Endowment Fund (1962).

By the Barnard College Club of Westchester County. Preference to be given to students from Westchester County. \$18,739.

Barnard School Alumnae Scholarship Fund (1916).

By the alumnae of the Barnard School for Girls. Preference to be given to nominees of the school. \$4,000.

Willina Barrick Memorial Scholarship Fund (1936).

In memory of Willina Barrick '00, by the College Club of Jersey City. Awarded on the nomination of the Club to a graduate of a Jersey City secondary school. \$10,635.

Irving Berling Scholarship Fund (1950).

By Irving Berlin. For one or more girls of foreign-born parentage. \$23,500.

Ida Blair Memorial Fund (1937).

In memory of Ida Blair by the Women's Democratic Union. For the purchase of books for a student, preferably one studying political science. \$700.

Alice Marie-Louise Brett Scholarship Fund (1930).

In memory of his daughter, Alice Marie-Louise Brett '15, by bequest of Philip E. Brett. For a student, in her senior year, specializing in French. \$10,000.

William Tenney Brewster and Anna Richards Brewster Fund (1961).

By bequest of William Tenney Brewster. To be awarded preferably in amounts not less than \$1,000, with priority to daughters of professional people educated in independent schools. \$166,614.

Anne Brown Endowment Scholarship Fund (1939).

In memory of Anne Brown, by the Anne Brown Alumnae Association. For young women of the City of New York. Approximately \$31,339.

Carpentier Residence Scholarship Fund (1919).

By bequest of Horace W. Carpentier. For students who are not residents of New York City or its vicinity. \$200,000.

Therese Cassel Scholarship Fund (1973).

By bequest of Therese Cassel '11. For students who were born in New York City, preferably those whose mothers were born in New York City and attended Barnard College. \$5,000.

Eliza Taylor Chisholm Memorial Scholarship Fund (1901).

By the Alumnae Association of Miss Chisholm's School, which Association reserves the privilege of precedence for such candidates as it may recommend. \$3,000.

Mrs. Henry Clarke Coe Scholarship Fund (1910).

By the National Society of New England Women, now the New York City Colony of the National Society. Awarded, on nomination of the Chairman of the Scholarship Committee of the New York City Colony, to a student from New England or of New England parentage. After the award is made the Society requires from the beneficiary full obedience to discipline and the highest ideals of scholarship. This may be awarded to an entering freshman. \$3,600.

Class of 1919 Decennial Fund (1929).

A tenth reunion gift by the Class of 1919, for a resident student. \$5,050.

Scholarship Funds

Augusta Salik Dublin Scholarship Fund (1960).

In memory of Augusta Salik Dublin '06, by her family and friends. To enable a student to continue her education in preparation for leadership in a field of social welfare, such as social work, social legislation, housing and city planning, or a related area. Available either to a student for undergraduate study or to a graduating student for graduate work, for one or more years. \$13,182.

Christine H. Eide Memorial Scholarships (1968).

Scholarships of \$500 each awarded biannually to students in their junior year who are majoring in anthropology or in English, with preference given to the former.

Educational and Cultural Trust Fund of the Electrical Industry Scholarships (1951).

By the major electrical contracting firms of New York City for sons and daughters of members of Local Union No. 3 of the International Brotherhood of Electrical Workers. Variable in number.

May Parker Eggleston Scholarship Fund (1972).

By Mrs. Cary Eggleston '04. For a science student, preferably a student planning to attend medical school. \$5,100.

English Scholarship Fund (1920).

By an anonymous donor. For a student of good standing who is specializing in English. If in any year there is no student specializing in English who is particularly deserving of aid, the scholarship may be used to assist a student majoring in some other subject. \$5,000.

Gladys Renshaw Esterbrook Scholarship Fund (1958).

In memory of her daughter, Gladys Renshaw Esterbrook '20, by bequest of Minnie R. Esterbrook. Preference to be given to students majoring in English or French. \$5,000.

Fairfield County Scholarship (1962).

Preference to be given to entering freshmen from Fairfield County for one year only.

Martha T. Fiske Scholarship Fund (1911).

In memory of her sister, Mrs. Martha T. Fiske-Collord, by Anna E. Smith. For a student who is not a resident of New York City or its suburbs. \$5,000.

Helen Jenkins Geer Scholarship Fund (1940).

In memory of her mother, Helen Jenkins Geer '15, by Helen Hartley Geer '40. Awarded annually, after conference with the donor. \$5,000.

German Scholarship Fund (1950).

Awarded at the end of her junior year to an outstanding student majoring in German. In case the winner does not need scholarship help, the award shall be a prize of \$100 and the balance of the scholarship may be given to another able student majoring in German. If in any year no student qualifies for the award, it may be deferred and given to one or more qualified students at a later date. \$13,200.

Virginia Gildersleeve International Scholarship Fund (1937).

In honor of the international work of Dean Emeritus Gildersleeve, by Charles R. Crane. For a foreign student coming to Barnard to study. \$15,100.

Virginia C. Gildersleeve Scholarship Fund (1968).

In memory of Dean Emeritus Gildersleeve by the Class of 1923 on their forty-fifth reunion. For a student majoring in the humanities, preference to be given to an English major. \$6,455.

Julius Held Scholarship Fund (1970).

By gifts of alumnae and other friends. For a deserving student majoring in Art History. \$35,766.

Emma Hertzog Scholarship Fund (1904).

With gifts from residents of Yonkers, New York. Awarded in conference with the faculty of the Yonkers High School, to a graduate of that school. \$3,000.

Marion Alice Hoey Fund (1944).

In memory of Marion Alice Hoey '14, by Nellie Poorman. Preference to be given to students studying Greek and Latin. \$2,000.

Holland Dames Scholarship (1915).

In honor of Fanny I. Helmuth, by the Society of Daughters of Holland Dames. Awarded in conference with a representative of the Society to a student descended from the early Dutch settlers.

Lillia Babbitt Hyde Scholarship Fund (1953).

By the Lillia Babbitt Hyde Foundation. For premedical students. \$25,000.

Charlotte Louise Jackson Scholarship Fund (1928).

In memory of Charlotte Louise Jackson, by bequest of her sister, Fannie A. Jackson. For a graduate of a Yonkers High School selected by or under the direction of the Board of Education of Yonkers. \$5,000.

Mary E. Larkin Joline Scholarship Fund (1927).

By bequest of Mary E. Larkin Joline. For a student who is specializing in music. \$10,000.

Werner Josten Scholarship Fund (1955).

With a gift from Mrs. Werner Josten. Preference to be given to a student majoring in music. If in any year no such student is eligible, the scholarship may be awarded to a student majoring in some other field. \$25,916.

Jessie Kaufmann Scholarship Fund (1902).

In memory of his daughter, Jessie Kaufmann, by Julius Kaufmann. Awarded on the merits of entrance examinations to a student who, after careful investigation, is found to have no relative able to assist her financially. It may be held for the entire college course \$4,000.

Kimball Scholarship Fund (1938).

By bequest of Lillian Emma Kimball. Awarded to a woman from Spain or one of the Spanish-American countries who shall pursue a year of graduate or undergraduate study at Barnard or elsewhere, under the direction of the Barnard Department of Spanish. \$32,883.

Eleanor Kinnicutt Scholarship Fund (1911).

In memory of Mrs. Francis P. Kinnicutt, a Trustee of Barnard College. Awarded at the end of the freshman year to a student of exceptionally high standing. It may be held for three years, provided the recipient continues to maintain a high rank. \$5,000.

Dr. Ann G. Kuttner Scholarship Fund (1969).

By the Trustees out of funds left to the College by the life income contract and bequest of Dr. Ann G. Kuttner for financial aid, preferably to premedical students. \$217,005.

Carolina Marcial-Dorado Scholarship Fund (1953).

In memory of Professor Carolina Marcial-Dorado, for many years head of the Barnard College Department of Spanish. Awarded to a student from Spain, or to a Spanish major continuing graduate studies in the United States or abroad. If at any time there is no applicant eligible for the grant, it may at the discretion of the department be awarded to a student who is majoring in Spanish. \$15,378.

Scholarship Funds

Leo Mayer Scholarship Fund (1972).

In memory of Leo Mayer by his family. Awarded in alternate years by Barnard College and Columbia College to a deserving student from a Newark or East Orange, New Jersey, public or parochial high school. \$2,000.

Eugene F. and Minnie Gouger McGowan Scholarship Fund (1955).

By an anonymous donor. Preference to be given to candidates from Mecklenburg County, North Carolina. If in any year no such candidate is eligible, the scholarship may be awarded to a student or students from other areas. \$10,000.

Fannie Moulton McLane Scholarship Fund (1961).

By bequest of Fannie Moulton McLane '07. Awarded for tuition to deserving students who are citizens of the United States of America, with preference given to those, if any, who satisfactorily establish that they are of Colonial or Revolutionary ancestry, or the descendants of a Civil War soldier. \$7,500.

Mrs. Donald McLean Scholarship Fund (1906).

By the New York City Chapter of the Daughters of the American Revolution. Awarded, in conference with a representative of the Chapter, to a student who agrees to pursue the study of history (chiefly that of the United States) continuously throughout her college course. \$3,000.

Ferry Starr Morgan Scholarship Fund (1959).

In memory of her father, by bequest of Grace B. Morgan '19. For a student who is majoring in music or philosophy. \$10,000.

Lawrence Morris Scholarship Fund (1968).

In memory of Lawrence Morris by his sister Mrs. Walter Sturges (Alice Morris '36) and other members of the family. Preference to be given to a nominee of the New York City Mission Society. \$11,590.

Mary Barstow Pope Scholarship Fund (1913).

In memory of Mary Barstow Pope, teacher in Miss Chapin's School, by her friends, her fellow teachers, and her pupils. Awarded on the nomination of a self-perpetuating committee representing the founders. \$4,000.

Public Service Scholarship Fund (1934).

By the Women's Organization for National Prohibition Reform. Awarded to young women of exceptional ability, interested in following a career of public service in the field of political science, who show special promise of future usefulness in the public service. Awarded at the discretion of the Faculty of Barnard College to one or two students in their junior or senior years. In the case of a particularly promising student the Faculty may, at its discretion, extend the award to cover one, two, or three additional years of graduate study at an approved college or university in order to encourage young women of exceptional ability to complete a course of study which will fit them for service in public life. \$30,000.

Lucille Pulitzer Scholarship Fund (1899).

In memory of his daughter, Lucille Pulitzer, by Joseph Pulitzer. Three are restricted to students from the City of New York; eight are for resident students. \$176,459.

Amelia Agostini de del Rio Scholarship Fund (1955).

In honor of Amelia de del Rio, Chairman of the Department of Spanish from 1942 to 1962. Awarded to a student from Mrs. de del Rio's native island of Puerto Rico. If at any time there is no applicant from Puerto Rico eligible for the grant, it may, at the discretion of the department, be awarded to a student who is majoring in Spanish. \$21,333.

Dr. Harry Rosenstein Scholarship Fund (1967).

In memory of Dr. Harry Rosenstein by his wife, Bertha Z. Rosenstein, and daughter, Gertrude L. Rosenstein '48. For a premedical student. \$5,000.

Joan Rosof Scholarship Fund (1964).

In honor of Joan Rosof '61, by her father, Mr. Murray Rosof. For qualified students with the wish, but not the directive, that preference be given to his descendants or, in the absence thereof, to students from the State of New York. \$5,340.

Felix St. George Scholarship (1955).

In memory of her father, Felix St. George, by bequest of Ida St. George. For an incoming freshman whose subject of interest is a science or premedical course, more particularly physics, chemistry, or biology. \$7,455.

Dorothy K. Scheidell Scholarship Fund (1965).

In memory of Dr. Dorothy K. Scheidell '28, by her family, classmates, and friends. For a premedical student. If in any year no student qualifies for the award, it may be deferred until the following year. If no student qualifies over a three-year period, the accumulated income may be awarded to any able student with financial need. \$5,615.

Lillian Schoedler Scholarship Fund (1967).

By bequest of Lillian Schoedler '11. Income and/or principal awarded to deserving students with financial need who have shown promise of qualities of leadership and/or potentialities for future civic or social usefulness. Awards preferably distributed in small amounts to many students. \$65,860.

Clarice Ann Smith Scholarship Fund (1973).

By bequests of Clarice Ann Smith '18. For students who in the judgment of the Trustees and Faculty give promise of excellence in the field of literature and composition. \$150,000.

Fred Curtis Smith Memorial Scholarship Fund (1955).

In memory of Fred Curtis Smith, at the time of his death Vice President and Mortgage Officer of the Bowery Savings Bank. \$57,000.

Hilda Staber Scholarship Fund (1967).

By bequest of Hilda Staber '05. For foreign students of character and ability. \$25,000.

Estella Raphael Steiner Scholarship Fund (1972).

With a gift from Mrs. G. Gustav Steiner '23. For a senior of exceptionally high scholastic standing in Biological Sciences who plans to engage in research in that field. \$5,469.

Emma A. Tillotson Scholarship Fund (1910).

By Mrs. Luther G. Tillotson. Awarded at the end of the freshman year to a student of exceptionally high standing. It may be held for three years, provided the recipient continues to maintain a high rank. \$5,000.

Clara Buttenwieser Unger Memorial Fund (1938).

In memory of his daughter, Clara Buttenwieser Unger '13, by Joseph L. Buttenwieser. To assist through her senior year a student whose subject of major interest is government, and who shows promise of ability to contribute to the promotion and perpetuation of true democracy under our Constitution. \$2,500.

Helen Elizabeth Vosburgh Scholarship Fund (1934).

In memory of Helen Elizabeth Vosburgh '25, by bequest of Katherine G. Lippke. Preference to be given to a self-supporting student. \$5,000.

Gertie Emily Gorman Webb Scholarship Fund (1953).

By Charles Webb. For a student nominated by the Department of History. \$4,990.

Scholarship Funds

Alma Gluck Zimbalist Scholarship Fund (1940).

By bequest of Alma Gluck Zimbalist. For a student who wishes to major in political science. \$10,000.



The following funds were established to honor those who have shown exceptional distinction in their chosen field of study.

FELLOWSHIPS

Associate Alumnae of Barnard College Graduate Fellowship (1963).

Awarded annually to a graduate who shows exceptional promise in her chosen field of work. \$50,000. Applications must be filed in the Alumnae Office by February 1.

Anne Davidson Fellowship Fund (1971).

In honor of Anne Davidson by the R. W. Davidson family and friends. Awarded at the discretion of the faculty committee of the **Program on Environmental Conservation and Management** to a graduating senior who has demonstrated continuing interest in the study of conservation. The holder is to pursue a year's graduate study in conservation at Columbia University or any other university of approved standing. Income on \$21,015.

George Welwood Murray Graduate Fellowship Fund (1930).

By George Welwood Murray. Awarded as an academic honor to that member of the graduating class of Barnard College who, in the opinion of the Faculty, shows most promise of distinction in her chosen line of work in the field of the **humanities** and/or the **social sciences**. Should the recipient prove in no need of financial assistance, she may retain the title and honor but resign the income, which may then be used by the College for other fellowships or scholarships. Students who have graduated in February are eligible as well as those who are to graduate in June. The holder is to pursue a year of graduate study at Columbia or any other university or college of approved standing. Income on \$20,000.

Grace Potter Rice Fellowship Fund (1935).

In memory of his wife, Grace Potter Rice, Instructor and Assistant Professor of Chemistry at Barnard from 1918 to 1934, by Winthrop Merton Rice. Awarded as an academic honor to the member of the graduating class of Barnard College who, in the opinion of the Faculty, shows most promise of distinction in her chosen line of work. Should the recipient prove in no need of financial assistance, she may retain the title and honor but resign the income, which will then be used for other fellowships or scholarships. Students who have graduated in February are eligible, as well as those who are to graduate in June. The holder is to pursue a year of graduate study in the **natural sciences or mathematics** at Columbia or any university or college of approved standing. Income on \$24,000.

Alpha Zeta Club Graduate Scholarship Fund (1936).

By the Alpha Zeta Club, Inc. Awarded at the discretion of the Faculty as an academic honor to a member of the graduating class of Barnard College who, in their opinion, shows promise of distinction in her chosen line of work. It may also be awarded to an outstanding recent Barnard graduate who is a candidate for a higher degree. Income on \$21,038.

William Mason Scholarship (1928).

The William Mason Scholarship in **music** is awarded periodically on recommendation of the Department of Music to a member of the graduating class of Barnard or Columbia College for graduate studies in music. An award of \$500.

PRIZES

General

Estelle M. Allison Prize Fund (1937).

By bequest of Estelle M. Allison. Awarded to a student for excellence in literature. Income on \$1,001.

Honors

Mary E. Allison Prize Fund (1937).

In memory of her mother, Mary E. Allison, by bequest of Estelle M. Allison. Awarded to a student for general excellence in scholarship. Income on \$1,001.

Frank Gilbert Bryson Prize (1931).

In memory of Frank Gilbert Bryson, by bequest of Ella Fitzgerald Bryson '94. The President of the College shall fix the method of selecting a senior who, in the opinion of the class, has given conspicuous evidence of unselfishness and who has made the greatest contribution to Barnard during her college career. Income on \$3,000.

The Columbia University Press Prize.

A copy of the Columbia Encyclopedia is awarded by the Columbia University Press to the member of the sophomore class who has done the best writing for Barnard Bulletin.

Eleanor Thomas Elliott Prize (1973).

In honor of Eleanor Thomas Elliott '48 by Mr. John Elliott, Jr. \$500 awarded annually to the outstanding student in the Junior Class, as chosen by the Honors Committee. The balance of the income shall be applied as a financial aid award to the same student or awarded to another deserving student if the recipient of the prize is not on financial aid. Principal \$25,500.

Katharine Reeve Girard Prize (1964).

In memory of Katharine Reeve Girard '33, by her husband, Professor Richard A. Girard, and her friends. Awarded by the Faculty Committee on Honors to a student whose interests are in the international aspects of the work in her major field. Income on \$2,500.

Margaret Meyer Graduate Scholarship Fund (1952).

In memory of Margaret Meyer Cohen '15, by bequest of Annie Nathan Meyer. Awarded to a student in the graduating class for instruction in secretarial work. Income on \$3,000.

The Helen Prince Memorial Prize Fund (1921).

In memory of his daughter, Helen C. Prince '22, by Julius Prince. Awarded to an undergraduate student for excellence in dramatic composition. Income on \$1,200.

Premedical

Helen R. Downes Prize (1964).

In honor of Professor Emeritus Helen R. Downes '14, Chairman of the Barnard College Department of Chemistry from 1945 to 1960, by former students and friends. Awarded at the end of her senior year to the student who, in the opinion of the Premedical Committee, shows greatest promise of distinction in medicine or the medical sciences. Income on \$1,958.

The Michael T. Glynne Memorial Prize (1971).

By Linda A. Glynne '71. A prize of \$100 awarded annually to the senior accepted by a medical school who has demonstrated outstanding achievement in the humanities and the social sciences. She must be a non-science major.

Ida and John Kauderer Prize Fund (1973).

Awarded annually to a premedical student majoring in chemistry. Income on \$1,000.

Art History

Virginia B. Wright Art History Prize Fund (1969).

Awarded to the most promising senior majoring in Art History. Income on \$1,540.

Biological Sciences

Edna Henry Bennett Memorial Fund (1927).

In memory of Edna Bennett '15, Lecturer in Zoology, by her friends. Awarded by the Department of Biology for work at a biological laboratory offering summer courses. Income on \$1,640.

Herrman Botanical Prize Fund (1892).

By Mrs. Esther Herrman. Awarded to the most proficient undergraduate student in biology. Income on \$1,000.

The Herbert Maule Richards Fund (1933).

In memory of Professor Richards, a member of the Department of Botany from 1896 to 1928 and Chairman from 1897 to 1928, by the Barnard Botanical Club, former students, and friends. Granted from time to time to further botanical research, under the direction of an approved institution, to a student or an alumna of Barnard College. Principal \$5,000.

Von Wahl Prize (1915).

In memory of Constance von Wahl, '12, President of the Undergraduate Association. Awarded to a student for excellence in biology, on the understanding that it is to be used to advance her knowledge in that field. If in any year no student stands out as eminently deserving of the prize, it is not awarded. Income on \$1,300.

Chemistry

American Institute of Chemists, New York Chapter.

Awarded annually to the outstanding student of chemistry who will continue the study of chemistry. A one-year subscription to "The Chemist," and a certificate of honor.

Helen R. Downes Prize (1964).

See Premedical listing.

Ida and John Kauderer Prize Fund (1973).

See Premedical listing.

Marie Reimer Scholarship Fund (1953).

In honor of Professor Emeritus Marie Reimer, for many years Chairman of the Barnard College Department of Chemistry, by former students and friends. Awarded annually at the end of her junior year to an outstanding student majoring in chemistry. In case the winner does not need financial help, the award shall be a prize, the amount to be recommended by the Chemistry Department. The balance of the income shall be awarded by the Director of Financial Aid to an outstanding student at the end of her junior year who is majoring in chemistry and who has financial need. The students receiving financial aid from this fund shall be informed of the source of the award. Principal \$5,100.

Economics

The American Statistical Association Prize, New York Area Chapter (1960).

Awarded annually to the outstanding undergraduate student in statistics. A one-year student membership in the American Statistical Association and \$50.

Katharine E. Provost Memorial Prize Fund (1949).

In memory of Katharine E. Provost. Miss Provost was for twenty-three years Secretary and Assistant to the Controller of Barnard College and, at the time of her death, Superintendent of Buildings and Grounds. Awarded for superior work by an undergraduate major in economics. Income on \$1,000.

Sylvia Kopald Selekman Prize Fund (1960).

In memory of Sylvia Kopald Selekman '20, by Janet Robb. Awarded by the Department of Economics to the freshman who is doing the best work in introductory economics. Income on \$1,000.

Education**Arlene Hershey Memorial Fund (1964).**

Awarded annually to a senior in the Education Program.

Stephanie Kossoff Prize (1972).

In memory of Stephanie Kossoff, by her family. A prize of \$100 awarded annually to the student who has made the most noteworthy contribution or meaningful endeavor in early childhood education.

English**Saint Agatha-Muriel Bowden Memorial Prize Fund (1971).**

By the Saint Agatha Alumnae Association in memory of its school principal from 1930 to 1940. Awarded for superior proficiency in the study of Chaucer and Medieval Literature. Income on \$1,600.

The Elizabeth Janeway Prize for Prose Writing.

A prize of \$500 awarded annually. Open to all undergraduates for a work of prose, whether fiction or non-fiction, which gives the greatest evidence of creative imagination and sustained ability. The final manuscripts must be submitted to the Chairman of the Department of English by March 15. The prize will be given at the discretion of a board of three judges chosen by the College and the donor.

Amy Loveman Memorial Fund (1956).

In memory of Amy Loveman '01, by her friends and classmates. First charge on the income shall be an annual prize of \$100 for the best original poem by a Barnard undergraduate. Terms of the competition will be announced by the English Department. The balance of the income shall be allocated to scholarships and shall be known as the Amy Loveman Scholarship. Principal \$20,100.

The Lenore Marshall Prizes for Writing (1960).

In memory of Lenore Marshall. For excellence in poetry and prose contributed to the undergraduate magazine. Adjudged by Professor Janice Thaddeus, in consultation with the Department of English and the editors-in-chief, and awarded to promising young writers in need of financial aid. Two at \$100 each.

Sidney Miner Poetry Prize Fund (1962).

In memory of Sidney Louise Miner '14, by bequest of Rosemary Alice C. Thomas. Awarded annually by the Department of English to the senior major who has shown distinction in the reading, writing, and study of poetry. Income on \$5,000.

Stains-Berle Prize Fund in Anglo-Saxon (1968).

In memory of her grandmothers, Caroline Foy Stains and Katharina Mohrherr Berle and in honor of Professor Cabell Greet, by Katherine G. Stains '52. Awarded annually to an undergraduate student for excellence in Anglo-Saxon language and literature. Income on \$1,000.

The Academy of American Poets Prize. (Columbia University)

A prize of \$100, established by the Academy of American Poets for the best poem or group of poems by a student. Awarded by the Department of English of Columbia University at the close of the Spring Term. Manuscripts should be submitted prior to March 15. For further information consult the Chairman of the Department of English and Comparative Literature of the University.

The Bunner Medal. (Columbia University)

The H. C. Bunner Gold Medal, in memory of Henry Cuyler Bunner, is awarded at Commencement to the candidate for a Columbia degree who shall present the best essay on any topic dealing with American literature selected in connection with course or seminar work in American literature and approved by the Chairman of the Bunner Prize Committee. For additional information consult the Departmental Representative for English and Comparative Literature of Columbia University.

Van Rensselaer Prize. (Columbia University)

To the candidate for a degree in Columbia University who is the author of the best example of English lyric verse. Material must be submitted by April 1. Applicants should submit not more than three poems of their own choice, aggregating not more than twenty pages. Income of the Marianna Griswold Van Rensselaer Fund, about \$50. For additional details consult the Department of English and Comparative Literature.

George Edward Woodberry Prize. (Columbia University)

By the Woodberry Society as a memorial to George Edward Woodberry. Awarded every second year to an undergraduate student of the University for the best original poem. Material must be submitted by April 1. Value of prize about \$100. For additional details consult the Department of English and Comparative Literature.

Environmental Conservation and Management**Henry Sharp Prize Fund (1970).**

In memory of Henry Sharp, Professor of Geology at Barnard College from 1941 to 1967, by gifts of alumnae, family and friends. Awarded annually to an outstanding student majoring in the program on Environmental Conservation and Management. Income on \$2,760.

French**Helen Marie Carlson French Prize Fund (1965).**

In memory of Helen Marie Carlson by her family and friends. Awarded to the student who writes the best composition in fourth-term French (French 4), the course which Miss Carlson directed for many years, or a similar course at the discretion of a board of three judges chosen by the College. Income on \$3,016.

Isabelle de Wyzewa Prize Fund (1972).

In memory of Isabelle de Wyzewa. By her family and friends. Awarded to the student who writes the best composition in the French course, Masterpieces of Literature from the Middle Ages to the Twentieth Century, which Professor de Wyzewa directed for many years. Income on \$1,000.

Frederic G. Hoffherr French Prize Fund (1961).

In memory of Frederic G. Hoffherr, Associate Professor of French from 1936 to 1955. Awarded annually to a student in Intermediate French (Course 3) for excellence in oral French. The prize is offered to encourage proficiency among students who are not themselves of French background. The winner is chosen on the basis of a contest sponsored by the French Department. Income on \$1,025.

Eleanor Keller Prizes (1968).

By bequest of Marguerite Mespoulet, Professor Emeritus of French at Barnard College, in memory of Eleanor Keller, Professor of Chemistry at Barnard College. One prize, not exceeding \$1,000, to be awarded annually to a member of the junior class, not necessarily a French major, who has an outstanding record in courses of French literature offered by the department. Another prize, not exceeding \$1,000, to be awarded annually to a member of the senior class, not necessarily a French major, who has an outstanding record in courses concerned with French culture. Principal \$43,517.

Honors

Rosemary Thomas Prize Fund in French (1966).

In honor of the poet Rosemary Thomas, by bequest of Helen Marie Carlson, a long-time member of the Barnard College French Department, awarded annually to the undergraduate student preferably, but not necessarily, a French major, who, in the opinion of the members of the Barnard College French Department, has shown the greatest evidence of a special sensitivity and awareness in her study of French poetic literature. Income on \$10,050.

German

Dean Prize in German (1925).

By Edward D. Adams for the promotion of the study of German language and literature in Barnard College. Awarded to that member of the senior class who has throughout her course done the best work in German language and literature. Income on \$1,000.

German Scholarship Fund (1950).

Awarded at the end of her junior year to an outstanding student majoring in German. In case the winner does not need scholarship help, the award shall be a prize of \$100 and the balance of the scholarship may be given to another able student majoring in German. If in any year no student qualifies for the award, it may be deferred and given to one or more qualified students at a later date. Principal \$13,200.

Greek and Latin

Earle Prize in Classics. (Columbia University)

A prize of \$150, in memory of Mortimer Lamson Earle, Instructor in Greek in Barnard College from 1889 to 1895 and from 1898 to 1900 and Professor of Classical Philology from 1900 to 1905. Awarded to a candidate for the degree of Bachelor of Arts, for excellence in sight translation of passages of Greek and Latin. For further information consult Professor James A. Coulter.

Jean Willard Tatlock Memorial Prize Fund (1917).

In memory of Jean Willard Tatlock '95, by her friends. Awarded to the undergraduate student most proficient in Latin. Income on \$1,250.

History

Eugene H. Byrne History Prize Fund (1960).

In memory of Eugene H. Byrne, Professor of History at Barnard College and Executive Officer of the Department from 1931 to 1949, by his wife, Janet M. Byrne, and friends. Awarded for superior work to an undergraduate majoring in history. Income on \$3,604.

The Jenny A. Gerard Medal (1908).

By the Society of the Colonial Dames in America in memory of Mrs. James Gerard, late President of the Society. Awarded annually to the student who is most proficient in Colonial history.

Italian

Bettina Buonocore Salvo Prize Fund (1966).

By bequest of Bettina Buonocore Salvo '16. Awarded annually to a deserving graduate or other student studying Italian, selected by the Department of Italian. Income on \$5,000.

Speranza Italian Prize Fund (1911).

In memory of Carlo Leonardo Speranza, Instructor and Professor of Italian at Barnard College from 1890 to 1911, by a former student. Awarded to a student for excellence in Italian. Income on \$1,000.

Mathematics

Margaret Kenney Jensen Prize Fund (1973).

In memory of Margaret Kenney Jensen '09, by Miss Evelyn H. McCaskie. Awarded annually preferably to a sophomore or sophomores for excellence in mathematics. Income on \$5,000.

Kohn Mathematical Prize (1892).

By Mrs. S. H. Kohn. Awarded to a senior for excellence in mathematics. Competitors for this prize must have pursued mathematics continuously during their college course. Income on \$1,000.

Music

Robert Emmett Dolan Prize. (Columbia University)

A cash prize awarded annually by the Department of Music to help a student in any division of the University in paying for instruction on a chosen musical instrument. The award was established by an anonymous donor in memory of Robert Emmett Dolan.

Oriental Studies

Taraknath Das Foundation Prize in Oriental Studies. (Columbia University)

A prize of \$50 awarded annually to a student in Barnard College, Columbia College, or the School of General Studies, for excellence in Oriental Studies.

Philosophy

The William Pepperell Montague Prize Fund (1949).

By William P. Montague, Lecturer, Instructor, and Professor of Philosophy at Barnard College from 1903 to 1949. Awarded to a student of Barnard College who, in the opinion of the members of the Department of Philosophy, shows promise of distinction in the field of philosophy. Income on \$5,441.

Political Science

Phoebe Morrison Memorial Prize Fund (1969).

Awarded upon recommendation of the Barnard College Political Science Department to a political science major planning to attend law school. Income on \$1,525.

James Gordon Bennett Prize. (Columbia University)

A prize of \$175 established through a gift from James Gordon Bennett may be awarded by the Faculty of Political Science, with the approval of the Chairman of the Bennett Prize Committee, for the best essay upon some subject of contemporary interest in the domestic or foreign policy of the United States. The competition is open to students not holding a Bachelor's degree who pursue satisfactory courses in political science. Manuscripts should be submitted prior to the last day of classes of the Spring Term. For additional information consult Professor Joseph A. Rothschild.

The Caroline Phelps Stokes Prize. (Columbia University)

The Caroline Phelps Stokes Prize of \$100 is awarded at Commencement to that student who has been a degree candidate for at least one academic year in Columbia College or Barnard College and who has written the best essay on any topic approved by the Stokes Prize Committee, which has been presented in course or seminar work. Material should be submitted by January 1. For additional information consult the Departmental Representative for Political Science.

Psychology

The American Statistical Association Prize, New York Area Chapter (1960).

See Economics listing.

Honors

Religion

Caroline Gallup Reed Prize Fund (1916).

In memory of her mother, Mrs. Sylvanus Reed, by Mrs. William Barclay Parsons for the recognition of outstanding work either in the field of the origin of Christianity and early church history or in the general field of the history and theory of religion. Awarded to the student who shows the highest excellence in one of these fields of work. The award is made partly on the basis of an essay to be handed in by April 1. Details regarding the scope of the essay may be obtained from the Department of Religion. Income on \$1,000.

Spanish

Spanish Prize (1959).

A prize of \$100 awarded annually to a Spanish major who, in the opinion of the Department, has done the most distinguished work in Spanish language and literature. Principal \$2,500.

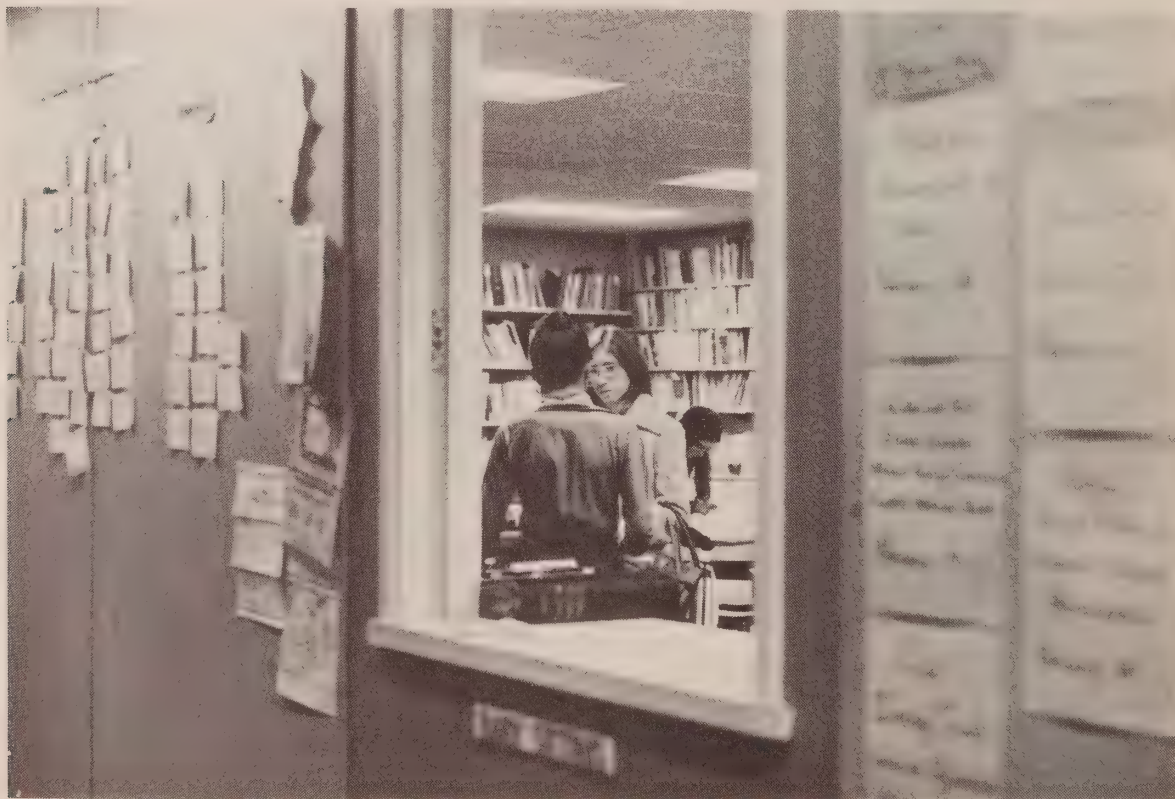
Susan Huntington Vernon Prize. (Seven Colleges)

A prize of about \$25, the annual income of the fund established in 1941 by pupils and friends of Mrs. Vernon, in tribute to her work at the Hispanic Institute, and augmented by her in 1943. The prize is awarded, on recommendation of the Chairman of the Department of Spanish, for the best original essay written in Spanish by a senior whose native language is not Spanish, but who is taking language courses at Barnard, Mount Holyoke, Radcliffe, Smith, Vassar, or Wellesley.

Urban Studies

Suzanne Farkas Urban Affairs Prize (1972).

By Mr. Robin Farkas. A prize of \$500 awarded annually for the best essay in Urban Affairs.



XII. Associate Alumnae

The Associate Alumnae of Barnard College is made up of sixteen thousand members from all states of the Union and more than seventy-three foreign countries. The Associate Alumnae serve the College in three important ways: by interpreting Barnard to the community; by keeping local secondary school students informed about Barnard; and by aiding in the support of the College.

The Associate Alumnae functions through a group of officers, directors, and alumnae trustees elected by members of the Association. The central office of the Associate Alumnae is in 115 Milbank Hall.

Barnard College Clubs, the Alumnae Council with nationwide membership, and a group of qualified and authorized alumnae make it possible to find spokesmen for Barnard at distances far from New York. Students who are considering Barnard may find it helpful to talk personally with the Barnard Area Representative living nearest them. A list of these representatives as well as officers of the Associate Alumnae is given below.

OFFICERS OF THE ASSOCIATE ALUMNAE

Blanche Kazon Graubard, President
Renee Becker Swartz, Vice President
Carol Hawkes, Secretary
Dena Rosenthal Warshaw, Director of Alumnae Affairs

DIRECTORS

Tobia Brown Frankel
Barbara Kahn Gaba
Barbara Rowan Gossett
Helene Finkelstein Kaplan
Barbara Lyons
Maureen McCann Miletta
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Ruth Simon Ritterband
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Jane Allen Shikoh
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Ruth Walter
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ALUMNAE TRUSTEES

Carolyn Ogden Brotherton
Cecile Parker Carver
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Barnard Area Representatives

ALABAMA

Birmingham
Mrs. William E. Davis, 3419 East Briarcliff Road, 35223

ARIZONA

Phoenix
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ARKANSAS

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CALIFORNIA

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Los Angeles Area
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Monterey
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Sacramento Area
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San Diego Area
Dr. Patricia Fouquet (Mrs. Douglas M.), 1540 Forest Way, Del Mar, 92014

San Francisco Area
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Mrs. Max Semel, 928 Castro Street, 94114
Judith Terry Smith (Mrs. James G.), 1527 Byron Street, Palo Alto, 94301
Rev. Janice H. Willette, 114 Alder Avenue, San Anselmo, 94960

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West Hartford
Mrs. Stanley Fellman, 8 Walbridge Road, 06119

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DISTRICT OF COLUMBIA

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See also Chevy Chase and Silver Spring, Md., and Annandale, Va.

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Dorothy Irvine Fulton (Mrs. Robert N.), 7375 S.W. 108th Terrace, 33168

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Evanston

Mrs. Carl S. Johnson, 2151 Grey Avenue, 60201

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Mrs. Rushworth M. Kidder, 289 Patton, 67208

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Barnard Area Representatives

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- Boston
 - Miss Channa Alperin, 297 Newbury Street, 02115
 - Mrs. Michael Tomlinson, 17 Appleton Street, 02116
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- Ithaca
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 - Mrs. Marvin N. Goldstein, 20 Varinna Drive, 14618

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Mrs. Stephen B. Moser, 5910 Scenic Drive, 98902

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WISCONSIN

Milwaukee

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Port Edwards

Mrs. Terrence O. Norris, 731 Wisconsin River Drive, 54469

1889	1899	1909	1919	1924	1929	1934	1939	1944	1949	1954	1967	1968	1969	1970	1971	1972	1973
to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to
1890	1900	1910	1920	1925	1930	1935	1940	1945	1950	1955	1968	1969	1970	1971	1972	1973	1974

Undergraduates, Regular

Seniors	40	62	87	126	227	181	164	208	260	245	437	420	433	468	490	477	548
Juniors	40	122	190	259	237	220	191	314	277	340	522	568	480	515	512	548	546
Sophomores	37	109	193	234	247	226	210	314	272	317	475	493	517	515	542	498	485
Freshmen	14	54	188	224	271	311	267	246	324	304	457	458	485	476	455	470	443
Unclassified students .....	....	....	....	57	54	103	143	56	17	1	23	23	21	16	2	24	....
	14	171	481	694	947	1076	997	954	1216	1097	1207	1914	1962	1936	1990	2001	2022

Special Students:

Matriculated	21	24	39	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Nonmatriculated .....	....	30	22	33	28	29	31	21	15	20	21	27	22	33	27	32	30
Departmental (1889-1896)	22	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Music students .....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
(1896-1904, 1914-1915)	41	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
	22	62	54	61	33	28	29	31	21	15	20	21	27	22	33	27	30

Graduate Students.
(1890-1900)

82	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
36	315	535	755	980	1104	1026	985	1237	1112	1227	1935	1989	1958	2023	2028	2049	2052

Degrees Conferred:

A.B.	39	88	139	198	247	221	206	270	303	258	452	502	437	468	491	487	....
B.S. (1909-1918) .....	....	2	5	....	....	....	....	....	....	....	....	....	....	....	....	....	....
A.M. (1898-1900) .....	....	18	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Ph.D. (1899-1900) .....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....

Total Bachelor's Degrees conferred 1893-1973: A.B., 17,196; B.S., 77.
These figures represent registration in the Autumn Term plus students admitted in the Spring Term.

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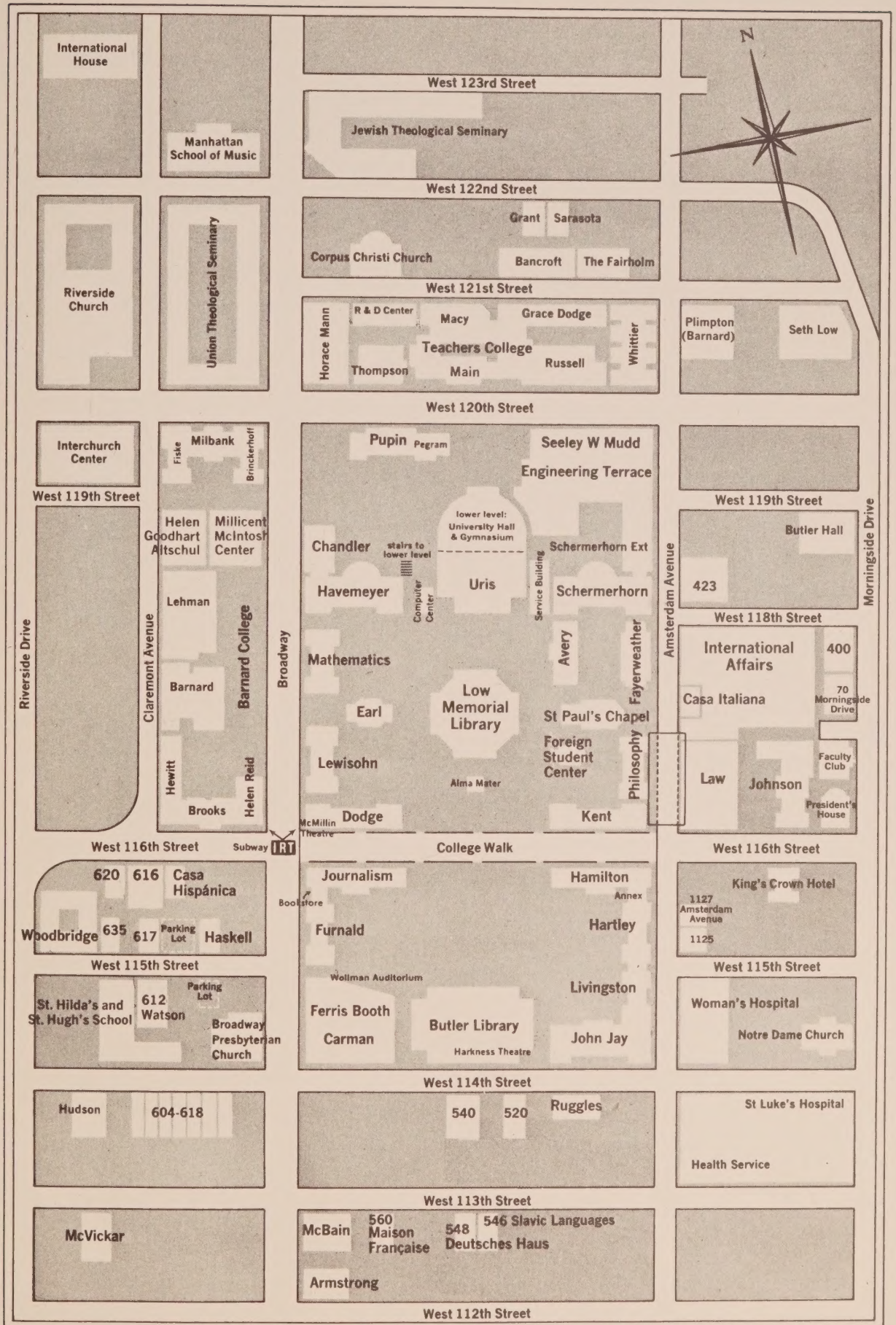
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